# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, DC 20549

# FORM 10-K (Mark One) ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934 |X|For the fiscal year ended December 31, 2023 OR TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934 П For the transition period from Commission File Number: 001-34674 Calix, Inc. (Exact Name of Registrant as Specified in Its Charter) 68-0438710 Delaware (State or Other Jurisdiction of (I.R.S. Employer Incorporation or Organization) Identification No.) 2777 Orchard Parkway San Jose, California (Address of Principal Executive Offices) 95134 (Zip Code) Registrant's telephone number, including area code (408) 514-3000 Securities registered pursuant to Section 12(b) of the Act: Name of each exchange on which registered Title of each class Trading symbol Common Stock, \$0.025 par value CALX The New York Stock Exchange Securities registered pursuant to section 12(g) of the Act:

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes: D No: 🗵

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. Yes: 

No: 

No:

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 Yes: ⊠ No: □

None (Title of class)

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes: 🗵 No: 🗆

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging gro Ex

owth company. See the definitions of change Act.	f "large accelerated f	iler," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12	b-2 of the
Large Accelerated Filer	$\boxtimes$	Accelerated Filer	
Non-accelerated filer		Smaller Reporting Company	
Emerging Growth Company			
	,,	mark if the registrant has elected not to use the extended transition period for complying with any ne	w or revised

financial accounting standards provided pursuant to Section 13(a) of the Exchange Act).  $\Box$ 

Indicate by check mark whether the registrant has filed a report on and attestation to its management's assessment of the effectiveness of its internal control over financial reporting under Section 404(b) of the Sarbanes-Oxley Act (15 U.S.C. 7262(b)) by the registered public accounting firm that prepared or issued its audit report.

If securities are registered pursuant to Section 12(b) of the Act, indicate by check mark whether the financial statements of the registrant included in the filing reflect the correction of an error to previously issued financial statements.  $\Box$ 

Indicate by check mark whether any of those error corrections are restatements that required a recovery analysis of incentive-based compensation received by any of the registrant's executive officers during the relevant recovery period pursuant to Section 240.10D-1(b).  $\Box$ 

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes:  $\square$  No:  $\boxtimes$ 

The aggregate market value of the Common Stock held by non-affiliates of the registrant based upon the closing sale price on the New York Stock Exchange on June 30, 2023, the last business day of the Registrant's most recently completed second fiscal quarter, was approximately \$2,926 million. Shares held by each executive officer, director and by each other person (if any) who owns more than 10% of the outstanding common stock have been excluded in that such persons may be deemed to be affiliates. This determination of affiliate status is not necessarily a conclusive determination for other purposes.

As of February 9, 2024, the number of shares of the registrant's common stock outstanding was 65,409,170.

# DOCUMENTS INCORPORATED BY REFERENCE

Portions of the registrant's 2023 annual report and definitive proxy statement for its 2024 annual meeting of stockholders are incorporated by reference in Item 5 of Part II and Items 10, 11, 12, 13 and 14 of Part III.

# Calix, Inc.

# Form 10-K

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## SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

Calix, Inc., together with its subsidiaries, is referred to in this document as "Calix," "we," "our" or "us." This report includes forward-looking statements that involve substantial risks and uncertainties. All statements other than statements of historical facts contained in this report, including statements regarding Calix's future financial position, business strategy and plans, product projections, anticipated market and industry trends and objectives of management for future operations, are forward-looking statements. In some cases, you can identify forward-looking statements by terminology such as "believe," "could," "expect," "may," "estimate," "continue," "anticipate," "intend," "should," "plan," "predict," "will," "would," "project," "potential" or the negative of these terms or other similar expressions. Forward-looking statements include Calix's expectations concerning the outlook for its business, productivity, plans and goals for future operational improvements and capital investments, operational performance, future market conditions or economic performance and developments in the capital and credit markets and expected future financial performance.

Forward-looking statements involve a number of risks, uncertainties and assumptions, and actual results or events may differ materially from those projected or implied in those statements. Important factors that could cause such differences include:

- our ability to predict our revenue and reduce and control costs related to our products or service offerings;
- · fluctuations in our gross margin;
- our ability to manage our relationships with our third-party vendors, including contract manufacturers, or CMs, original design manufacturers, or ODMs, logistics providers, component suppliers and development partners;
- our ability to forecast our manufacturing requirements and manage our inventory;
- supply chain constraints and cost increases for components, shipping and logistics;
- our dependence on sole-, single- and limited-source suppliers, some of which are located primarily or solely in China, and other factors:
- our ability to build and sustain an adequate and secure information technology infrastructure;
- the quality of our products, including any undetected hardware and software defects or software bugs;
- our ability to ramp sales and achieve market acceptance of our new products and broadband service providers', or BSPs', willingness
  to deploy our new products;
- the capital spending patterns of BSPs, and any decrease or delay in capital spending by BSPs due to macro-economic conditions, regulatory uncertainties or other reasons;
- the impact of government-sponsored programs on our customers and the impact to our customers of a United States, or U.S., government shutdown;
- our ability to develop new products or enhancements that support technological advances and meet changing BSP requirements;
- the length and unpredictability of our sales cycles and timing of orders;
- our lack of long-term, committed-volume purchase contracts with our customers;
- intense competition and our ability to increase our sales to larger BSPs globally;
- our exposure to the credit risks of our customers;
- the interoperability of our products with BSP networks;
- our ability to estimate future warranty obligations due to product failure rates;
- our products' compliance with industry standards;
- our ability to expand our international operations;
- our ability to protect our intellectual property, or IP, and the cost of doing so;
- our ability to obtain necessary third-party technology licenses at reasonable costs;
- the regulatory and physical impacts of climate change and other natural events;
- the attraction and retention of qualified employees and key management personnel; and
- our ability to maintain proper and effective internal controls.

We caution you against placing undue reliance on forward-looking statements, which reflect our current beliefs and are based on information currently available to us as of the date a forward-looking statement is made. Forward-looking statements set forth in this Annual Report on Form 10-K speak only as of the date of its filing. We undertake no obligation to revise forward-looking statements to reflect future events, changes in circumstances or changes in beliefs. In the event that we do update any forward-looking statements, no inference should be made that we will make additional updates with respect to that statement, related matters or any other forward-looking statements.

#### PART I

## ITEM 1. Business

## **Company Overview**

Calix was founded in 1999. We develop, market and sell our platform (cloud, software and systems) and managed services that enable service providers of all types and sizes to innovate and transform their businesses. For our customers to successfully transform their businesses into the innovative broadband service providers, or BSPs, of the future, they require actionable data for critical business functions such as network operations, customer support and marketing. However, this data is often trapped in disparate systems or departmental silos. Our platform, which includes Calix Cloud, Revenue EDGE and Intelligent Access EDGE, gathers, analyzes and applies machine learning to deliver real-time insights seamlessly to each key business function. Our customers utilize these data and insights to simplify network operations, marketing and customer support and deliver a growing portfolio of SmartLife managed services and experiences that excite their subscribers. This enables BSPs to grow their brand through increased subscriber acquisition, loyalty and revenue and to reduce their operating costs, creating value for their businesses and the communities they serve.

This is our mission: to enable BSPs of all sizes to simplify, excite and grow.

We believe our platform offers a competitive edge to BSPs at a critical time of increasing competition from direct-to-consumer cloud companies and device providers as they expand their reach and focus on owning the connected home experience. For example, these over-the-top competitors are entering the home by offering Wi-Fi enabled devices, and then leveraging behavioral insights to expand their direct relationship and build their brand, not the BSP's, with the subscriber by offering additional consumer services. Over time, we expect this competition can erode a BSP's brand and relationship with its subscribers, by reducing broadband to an easy-to-replace commodity, which can increase churn and reduce revenue. Our platform enables BSPs to build next generation networks and offer higher-value managed service offerings that enable them to grow revenue, increase subscriber loyalty and monetize their network investments.

Innovative BSPs, who embrace our platform, understand this competitive threat and that their brand's central position in the home is their most valuable strategic asset. As such, they must protect and expand continually. Our Intelligent Access EDGE network solution and Revenue EDGE subscriber solution are designed to allow BSPs to simplify their businesses and reduce operating costs, while launching exciting new services in a matter of days and weeks instead of months and years. Our role-based cloud enables BSP teams, such as marketing, operations or customer support, to leverage real-time behavioral analytics to anticipate the subscriber's needs, whether they are in the home, roaming across the town or managing a small business. Our platform is built to enable BSPs to quickly and easily deploy a growing portfolio of SmartLife managed services to connect entire communities. This enables BSPs to establish themselves as essential technology innovators that are enabling their communities to grow and thrive.

The BSPs' teams can utilize insights from Calix Cloud to offer these new and innovative services to those subscribers who have the propensity to buy, thereby growing revenue as they deliver a connected experience at significantly lower operating costs. This also enables them to build their brand and value proposition around innovation and subscriber experience. As a result, many of Calix's BSP customers have experienced improved customer satisfaction scores, minimal churn and significant growth. To expand our reach in the market, we will continue to pursue strategic technology and distribution relationships that align with BSPs' strategic priorities. At the same time, we offer our Calix Customer Success and Support Services along with a growing portfolio of award-winning market activation resources that provide the BSPs with best practices and programs to strengthen and grow their brand with their subscribers, thereby increasing subscriber loyalty and opportunities to grow their subscriber base.

# **Strategy Overview**

Our strategy is to position Calix as the key partner providing a broadband delivery platform (cloud, software and systems) and managed services to enable and facilitate the transformation of BSP networks and the residential and small business network experience in order to excite all of their subscribers. Most BSPs will require transformation of their business and operations to become an essential provider of data-driven, high-value managed services to their subscribers. The principal elements of our strategy are:

Starting with the data – The principal way we gather, analyze and deliver actionable insights for BSPs is via the Calix Cloud. Our role-based Calix Cloud enables critical functions within a BSP's business, such as marketing, operations and support, to leverage real-time data to continually understand and optimize the experience for their subscribers.

**Building and evolving our platform** — Our product strategy centers on our strategic platform. Our platform simplifies BSPs' businesses by delivering intelligence and automation across the entire subscriber facing network — from the data center edge to the subscriber's devices. Our strategy is to continually augment and extend our platform with features and services directly or through partners to allow our BSP customers to deliver cutting-edge services to their subscribers.

Engaging directly with BSP customers — We continue to invest in our direct sales capabilities so that we can engage deeply with our BSP customers to help them understand the differentiable value that our platform provides. As we deploy new solutions, we are building the expertise of our team by adding specialized resources in areas such as marketing, cloud and network operations. Our direct model is complemented with selective programs for our channel partners, who have established local market expertise and have demonstrated the ability to generate new market opportunities and support sales of cutting-edge technologies for BSPs.

Expanding customer footprint across our total addressable opportunity — Our total addressable opportunity includes service providers of any type and size, including local and competitive exchange carriers, cable multiple system operators, or cable MSOs, wireless internet service providers, or WISPs, fiber overbuilders such as municipalities and electric cooperatives and tribal communities, multiple dwelling units and hospitality providers. For the past four years, we have averaged adding over 90 new BSP customers per year purchasing directly or through our partners. Our diverse and growing customer footprint is a critical source of our future growth as we expand our portfolio and sell additional components of our platform and managed services to both new and existing customers. Our platform enables us to expand our total addressable opportunity and recurring revenue streams by allowing us to address the needs of not only traditional wireline-focused service providers, but also emerging service providers. As such, we intend to continue to engage emerging providers that are creating entirely new customer segments, including fiber overbuilders, utilities and municipalities. We will also continue to pursue service provider segments where there is an opportunity to grow our current share, such as cable MSOs, large traditional wireline-focused service providers and international markets.

Extending portfolio of Calix services – Our services team, Calix Services, supports our BSPs as they define their transformation strategies, build new skills, implement new technologies and deploy new subscriber services. Calix Services' capabilities address the BSP's entire network and service delivery lifecycle. These services allow BSPs to benefit directly from our deep expertise working with service providers to optimize their operations and leverage our advanced analytics to improve the operational efficiency of their teams.

**Pursuing strategic relationships** – We will continue to pursue strategic technology and distribution relationships that help us align with BSPs' strategic priorities. We continue to invest to provide technical synergy across the ecosystems that support our customers' most critical business processes through our partner program. By adding new solutions to our platform ecosystem, we significantly enhance the value that our platform delivers to BSPs. In addition, we are expanding our relationships with organizations that help our customers plan and execute in-market. Examples of these partners are Conexon Connect, LLC, ePlus Technology, inc. and The Pivot Group, LLC.

# **Product Overview**

Our product strategy centers on increasing the market adoption of two fundamental components:

- 1. Our Calix Platform, which consists of:
  - Calix Cloud<sup>®</sup>, which comes in three role-base editions: Calix Engagement Cloud (formerly Calix Marketing Cloud), Calix Service Cloud (formerly Calix Support Cloud) and Calix Operations Cloud.
  - Calix Intelligent Access EDGE<sup>TM</sup>, access network solution for automated, intelligent next generation networks.
  - Calix Revenue EDGE<sup>TM</sup>, our premises solution for subscriber managed services.
- 2. Our SmartLife managed services offerings, which consist of:
  - SmartHome<sup>TM</sup> managed services and applications to enhance, operate and secure the connected experience of subscribers in their home, including managed Wi-Fi, advanced content control, network security, connected cameras, social media monitoring for kids and device protection programs.
  - SmartTown® managed services that reimagine community Wi-Fi as a ubiquitous, secure and managed experience across a BSP's footprint
    by making their town a SmartTown. By leveraging residential and small business Wi-Fi systems combined with strategically deployed
    outdoor Wi-Fi access points, BSPs can serve subscribers, schools, municipalities, organizations, planned communities and more. These
    opportunities open new markets and relationships with the public sector to reduce reliance on and protect against 5G LTE fixed wireless
    access.

SmartBiz™ managed services that address the business networking and productivity needs of small business owners with an all-in-one
managed service that increases staff productivity, secures critical business systems and enhances customer loyalty.

Each managed subscriber service is complemented by real-time subscriber insights via Calix Engagement Cloud, Calix Service Cloud and Calix Operations Cloud offerings, which are configurable to display role-based insights for BSP general management, marketing, support, operations and engineering staff. These insights enable BSPs to anticipate and target new revenue-generating services and applications through our mobile application, Command $IQ^{\otimes}$  for residents and CommandWorx<sup>TM</sup> for businesses. Our Calix Cloud enables simple integrations with other market-leading workflow solutions for marketing (including Facebook, Mailchimp, Constant Contact and HubSpot), support ticketing solutions and operations support systems and business support systems.

The SmartLife<sup>TM</sup> managed services are built on the Calix Platform and fully integrated with our GigaSpire<sup>®</sup> and GigaPro<sup>®</sup> family of Wi-Fi systems to be ready for deployment as a complete subscriber experience solution for a BSP's residential subscribers, small business subscribers and community networks. Calix customers are evolving their go-to-market strategies to go beyond marketing broadband speed. Increasingly, they are becoming "experience" providers by delivering valuable managed services built on top of their Wi-Fi offerings. This unique portfolio gives BSPs more opportunities to provide differentiated services to their subscribers and grow their revenue.

Our access network solutions redefine the access edge of the network by simplifying its architecture and operations. The Calix Platform's access network component is implemented in our E-Series family of modular, non-blocking systems, enabling BSPs to meet a wide variety of deployment scenarios. BSPs can consolidate multiple access network elements into a single system using specialized software modules that add functionality and remove complexity, thereby reducing the total cost of ownership and the time to market for new services. We offer a range of training, professional and success services to assist BSPs in every domain of network management from strategy to deployment and management.

These offerings are sold independently and offer unique entry points for new customers who are partnering with Calix to transform their businesses. Moreover, an increased segment of our customer base is leveraging all components of our platform and managed services in an end-to-end strategy to simplify their businesses, excite their subscribers and grow the value that they deliver for their subscribers and communities.

Finally, to support these managed services, we offer market activation resources and customer support programs through our customer success organization to enable BSP teams to quickly deploy, manage and monetize each service that they provide to subscribers. These resources include marketing content that can be easily customized with on-line tools, training programs, success services and professional services.

#### Customers

We market and sell our platform (cloud, software and systems) and managed services to service providers of all types and sizes. To date, we have focused primarily on service providers in the North American market. Our customers span all sizes of broadband subscriber count from a few hundred to more than six million. We currently have approximately 1,600 active service provider customers, purchasing directly and through partners, to deploy passive optical, Active Ethernet or point-to-point Ethernet access networks or subscriber premise systems. Our service provider customers include: ALLO Communications; Connect Holding II, LLC (dba Brightspeed); CityFibre Holdings Limited; Conexon Connect; Cox Communications; Gibson Connect, LLC; Hunter Communications; Jade Communications; Gridiron Fiber Corporation (DBA Lumos); Lumen Technologies, Inc., or Lumen; Paul Bunyan Communications; Silver Star Communications; Tombigbee Electric Power Association and Tombigbee Fiber, LLC and Verizon Communications, Inc.

The U.S. Federal government has approved programs, totaling more than \$60 billion, to fund broadband and connectivity expansion across the United States. Calix has a dedicated team of funding specialists, assisting our customers with the most up-to-date information on broadband funding opportunities as they are introduced and personalized strategies to maximize their grants to support their growth.

We classify service providers into large, medium and small based on the number of broadband subscribers they serve. Large service providers are those with wide geographic footprints and broadband subscribers of 2.5 million or more. Medium service providers also operate typically within a wide geographic footprint but are smaller in scale with broadband subscribers that range from 250,000 to 2.5 million. Small service providers consist primarily of over 1,000 predominantly local independent operating companies, or IOCs, typically focused on a single community or a cluster of communities. They include a growing number of municipalities, cable MSOs, electric cooperatives, fiber overbuilders and WISPs. These entities range in size from a few hundred to 250,000 broadband subscribers.

No customer represented more than 10% of revenue in 2023, 2022 or 2021. Sales to customers outside the United States represented 9% of our revenue in 2023, 9% of our revenue in 2022 and 17% of our revenue in 2021. Our sales outside the United States have been and are currently predominantly to customers in the Americas and Europe.

# **Customer Engagement Model**

We market, sell and support the success of our platform and managed services predominantly through our direct sales force, supported by marketing, product management and customer success personnel. We have also expanded this model to include select channel partners in North America and more than 40 international channel partners. Even in circumstances where a channel partner is involved, our sales and marketing personnel are generally selling side-by-side with the channel partner. We believe that our direct customer engagement approach provides us with significant differentiation in the customer sales process and customer engagement programs by aligning us more closely with our customers' changing needs and successful implementation of our solutions.

# **Research and Development**

Continued investment in research and development is critical to our business. We have made significant investments in our product portfolio, and we intend to continue to dedicate significant resources to research and development to develop, enhance and deliver new platform features and capabilities, including investments in innovative technologies that support our business strategy. Our research and development team is composed of engineers with expertise in software and cloud platforms, optics, wireless technologies and systems engineering. Our research and development team is responsible for designing, developing and enhancing our platform and managed services, performing product and quality assurance testing and ensuring the compatibility of our products with third-party hardware and software products. Increasingly, our engineers are focused on enhancements to our cloud and software platform components. Our teams of engineers currently remain concentrated in San Jose and Petaluma, California; Nanjing, China; Bangalore, India; Minneapolis, Minnesota and Richardson, Texas. We also outsource a portion of our software and cloud development to domestic and international third parties and depend on these partners to meet our development plans.

# Manufacturing and Supply Chain

We rely on CMs, ODMs and third-party logistics partners for the supply and distribution of our products. Our global supply chain management organization oversees these third parties to source and procure materials, manufacture and deliver our products. Our global supply chain management organization consists of order management, planning, sourcing, logistics, test and manufacturing engineers and new product introduction personnel. We tightly integrate our supply chain management and new product introduction activities with the activities outsourced to these third parties. We believe that our relationships with and our reliance on third parties allow us to improve new product introduction time, conserve working capital, reduce product costs and minimize delivery lead times while maintaining high product quality as well as the ability to scale quickly to handle increased order volume. We continue to qualify and utilize additional vendors for various portions of our supply chain from time to time.

The COVID-19 pandemic-induced global demand surge resulted in supply chain challenges, including component shortages or unavailability, end-of-life notifications, extended lead times, elongated transit times, port congestion, spot market purchases, multiple price increases and surcharges. These challenges abated during 2023. The overhang from these events is a buildup of inventory in the supply chain. At our direction, our suppliers built up inventory to buffer against the long lead-times for semiconductors and other electronic components. We are using this as an opportunity to realign our strategic buffer inventory to protect against future disruptions. Most of the excess inventory will be worked off during the normal course of business. As time goes on, there may be components that become obsolete due to technology shifts or demand changes. This will be reflected in our inventory reserve balance as it becomes apparent during our financial reviews. For example, during the fourth quarter of 2023, we wrote down obsolete inventory and accrued a liability for components at suppliers primarily related to the wind down of our legacy product family that existed before our shift to an all-platform model.

# Seasonality

Fluctuations in our revenue occur due to many factors, including the varying budget cycles and seasonal buying patterns of our customers. More specifically, our customers tend to spend less in the first fiscal quarter as they are finalizing their annual capital spending budgets, and in certain regions, customers are also challenged by winter weather conditions that inhibit outside fiber deployment. In recent years, as our revenue from our large customers decreased, we have experienced less year-end volatility due to capital budgetary spending or freezing. This, combined with an increase in recurring revenue, has resulted in smaller seasonal fluctuations, and we expect this trend to continue.

# Competition

The communications software and systems equipment markets are highly competitive. Competition is largely based on any one or a combination of the following factors: functionality and features, price, existing business and customer relationships,

product quality, installation capability, service and support, long-term returns, scalability, development and manufacturing capability.

We compete with several companies within the markets that we serve, and we anticipate that competition will intensify. Vendors with which we compete include: ADTRAN, Inc.; Ciena Corporation; CommScope Inc.; DZS Inc.; eero/Ring (Amazon companies); Harmonic, Inc.; Huawei Technologies Co., Ltd.; Google Nest (a Google company); Nokia Corporation; Plume Design, Inc. and Ubiquiti Inc. In various geographic or vertical markets, there are also several smaller companies with which we compete. As we expand into adjacent markets, we expect to encounter new competitors. Many of our competitors have the financial resources to offer competitive products at a below market price, which could prevent us from competing effectively.

#### Intellectual Property

We rely on a combination of IP rights, including patents, trade secrets, copyrights and trademarks as well as customary contractual protections. These rights and protections are accomplished through a combination of internal and external controls, including contractual protections with employees, contractors, customers and partners, and through a combination of U.S. and international IP laws.

As of December 31, 2023, we held 111 U.S. patents and 26 pending U.S. and international patent applications. U.S. patents generally have a term of twenty years from filing. The remaining terms on our individual patents vary from less than a year to seventeen years. U.S. patent, copyright and trade secret laws afford us only limited protection, and the laws of some foreign countries do not protect proprietary rights to the same extent.

We believe that the frequency of assertions of patent infringement has and continues to increase in our industry. Any claim of infringement from a third party, even claims without merit, could cause us to incur substantial costs defending against such claims, could require us to pay substantial damages or include an injunction or other court order that could prevent us from selling our products. In addition, we might be required to seek a license which may not be available on commercially reasonable terms or at all. Alternatively, we may be required to develop non-infringing technology, which would require significant effort and expense.

# **Human Capital**

We employee 1,760 employees globally as of December 31, 2023 with 1,055 employees located in the United States and 705 outside of the United States, primarily in Canada, China and India. Except for one employee located in France and subject to customary local collective bargaining arrangements, we do not have any employees represented by a labor union with respect to their employment with us. We have not experienced any work stoppages and consider our relations with our employees to be good. We consider our talent to be very important to our operations and execution of our business strategy as well as the overall success of our business. As such, we invest significant management attention, time and resources to attract, engage, develop and retain our talent. Our talent strategy focuses on our culture and core values, our talent programs and the overall well-being and safety of our talent.

*Culture and values.* At Calix, we believe culture is how each employee treats their teammates, customers and partners every day. Each employee is entrusted with our culture to create a positive work experience for all. This is grounded by each employee knowing their purpose, their commitment to creativity, collaboration and communication as well as investing in the success of others. From leadership down, Calix embraces a "better, better, never best" philosophy, which we believe encourages continuous improvement and experimentation. This culture enables Calix to deliver on its mission to help BSPs simplify their businesses, excite their subscribers and grow value for their communities.

*Talent Development.* We prioritize the ongoing professional growth of our team by providing on-demand access to training through top-notch industry platforms. Additionally, we provide educational resources and the chance to glean insights from subject matter experts spanning diverse topics. Our commitment extends globally, fostering a collaborative space for leaders to connect and evolve as Calix champions. Complementing these efforts, we offer valuable developmental opportunities such as stretch assignments and participation in our mentorship program. We firmly believe that sustained investment in the skills and knowledge of our team is pivotal to ensuring our enduring success.

*Diversity, Equity and Inclusion.* At Calix, we strive to create an inclusive culture that values diversity, promotes equity and celebrates the differences among us. We believe a diverse workforce is at the core of our innovation and drives productivity and growth. Our diversity and inclusion strategy takes into consideration the entire employee life cycle, from recruitment, to learning and development and total rewards. We support a range of employee programs and initiatives designed to foster belonging, engagement, acceptance and diversity through employee-led affinity groups, leadership events, meetups and celebrations. We are proud and honored to be recognized by industry experts for our diverse culture.

Community Outreach. Calix is committed to creating a positive social impact by leveraging our resources, expertise and network to address pressing societal challenges. We strive to give back to the community whenever possible. To establish a rhythm and cadence, Calix sponsors two major giving campaigns throughout the year — National Volunteer Month in April and

Season of Giving in the fourth quarter as well as ongoing initiatives throughout the year. We believe together we can be a force for good and are determined to drive change in the communities where we operate and beyond.

Our wellness, safety and health programs. At Calix, employee well-being is crucial to creating a healthy workplace where employees can do their best work. We recognize that employees have diverse needs when it comes to health and well-being and provide an expanded library of tools and apps, including "Unmind," an app that provides digital tools and techniques designed to empower employees to live a more fulfilling and balanced life. To further support employees and their wellness journey, we launched a "LifeStyle" Wellness Reimbursement Program that offers employees a quarterly wellness allowance to help employees reach their personal wellness goals and support a healthy lifestyle. We also implemented Productivity and Recharge Days and a Leadership Cares program for leaders to send gifts to employees. We believe that these initiatives have helped Calix become a top company to work for.

# **Corporate Information**

Our principal executive offices are located at: 2777 Orchard Parkway, San Jose, California 95134, and our telephone number is (408) 514-3000. Our website address is: www.calix.com. We do not incorporate the information on or accessible through our website into this Annual Report on Form 10-K, and you should not consider any information on, or that can be accessed through, our website as part of this Annual Report on Form 10-K. Calix®, the Calix logo design, AXOS®, Calix Cloud®, CommandIQ®, CommandWorx™, GigaPro®, GigaSpire®, SmartTown® and other trademarks or service marks of Calix appearing in this Annual Report on Form 10-K are the property of Calix. Trade names, trademarks and service marks of other companies appearing in this Annual Report on Form 10-K are the property of the respective holders. The Securities and Exchange Commission, or SEC, maintains a website at www.sec.gov that contains reports, proxy statements and other information regarding issuers that file electronically with the SEC. We post on the Investor Relations page of our website, www.calix.com, a link to our filings with the SEC free of charge, as soon as reasonably practical after they are filed electronically with the SEC.

## ITEM 1A. Risk Factors

We have identified the following additional risks and uncertainties that may affect our business, financial condition and/or results of operations. Investors should carefully consider the risks described below, together with the other information set forth in this Annual Report on Form 10-K, before making any investment decision. The risks described below are not the only ones we face. Additional risks not currently known to us or that we currently believe are immaterial may also significantly impair our business operations. Our business could be harmed by any of these risks. The trading price of our common stock could decline due to any of these risks, and investors may lose all or part of their investment.

#### **Business and Operational Risks**

We face risks associated with being materially dependent upon third-party vendors; certain factors that affect our business as a result of those dependencies have and could continue to disrupt our business and adversely impact our gross margin and results of operations.

We materially depend upon third-party vendors for our complex global supply-chain operations, including for services to develop, design and source components and materials, as well as manufacture, transport and deliver our products. If any of these vendors stop providing their services, for any reason, we would have to obtain similar services from other sources, which may not be available on commercially reasonable terms, if at all. We also have limited control over disruptions that may occur at the facilities of those providers, such as supply interruptions, labor shortages, strikes, shipping backlogs at ports and similar disruptions to transportation infrastructure, design and manufacturing failures, quality control issues, systems failures or even facility closures arising from pandemics or natural disasters. In addition, switching development firms or manufacturers could delay the manufacture and availability of products and/or require us to re-qualify our products with our customers, which would be costly and time-consuming. Any interruption in the development, supply or distribution of our products would adversely affect our ability to meet scheduled product deliveries to our customers and could result in lost revenue or higher costs, which would negatively impact our gross margin and operating results and harm our business.

Particular risks associated with management of our global supply chain operations include the following:

• Manufacturing constraints, shortages and other disruptions. We do not have internal manufacturing capabilities and rely solely on a small number of CMs and ODMs to manufacture and supply our products. Our business operations and ability to supply our products are highly dependent upon our ability to secure adequate third-party manufacturing capabilities and capacity and to effectively manage those third parties to meet our business needs. Our dependence solely on third-party manufacturers makes us vulnerable to possible supply and capacity constraints and reduces our control over manufacturing disruptions due to component availability, extended lead times delivery schedules, quality, manufacturing yields and increased costs. Some of these risks occur from time to time in our business, including recent increases in component costs. If these disruptions and constraints are prolonged, or if these manufacturers do not have

the ability or business continuity plans to fulfill their obligations to us, our business could be disrupted. If we cannot effectively manage our vendors or if we fail to invest adequate resources to manage our supply chain operations, our ability to meet customer orders and generate revenue may be negatively impacted. A substantial portion of our manufacturing is done at facilities outside of the U.S., largely in Asia, which presents increased supply risk, including the risk of supply interruptions, delays, shortages or reductions in manufacturing quality or controls. In addition, these supply interruptions, delays and shortages could impair our ability to meet our customer requirements, require us to pay higher prices or incur expedite fees, which would harm our business and negatively impact our gross margin and results of operations. Our international manufacturing also creates risks and uncertainties associated with regulatory changes or government actions such as local business requirements, trade restrictions and tariffs, economic sanctions or related legislation, which may complicate our export and import activities, be disruptive to the operations of our manufacturers and logistics partners or result in higher product and shipping costs and variability of supply. For example, in 2022, substantially all our silicon suppliers extended their lead times and increased prices. Prices remain high, and while many silicon suppliers have begun reducing their lead-times, we continue to face extended lead times. Manufacturing in Asia further heightens our risk of meeting customer delivery requirements as we rely upon third-party logistics companies to transport and import significant volumes of products to the U.S. where we generate a substantial majority of our revenue. These supply chain risks are further increased by periodic shipping backlogs at ports and similar disruptions to transportation infrastructure.

- Limited sources and sole-sourced supply. We are dependent upon sole-source or limited-source suppliers for some key product components such as chipsets and certain of our application-specific integrated circuit processors and resistor components, including certain components sourced solely through suppliers located in China and other Asian countries. Any of these suppliers could stop producing our components, raise the prices they charge us, be subject to higher product tariffs, epidemics or other conditions that disrupt their operations, cease operations or enter into exclusive arrangements with our competitors, consequently affecting our operations and results. For example, we have experienced disruptions in our supply of certain components that we source from suppliers in China and other Asian countries due to production disruptions, factory closures and longer lead times for components and from uncertainty around trade and tariff policies between the U.S. and China, which caused delays in our product supply. Being dependent upon a limited number of suppliers constrains our ability to mitigate these disruptions in our supply chain, particularly if such disruptions are prolonged. This may adversely affect our ability to obtain components and materials needed to manufacture our products at acceptable prices or at all. These risks would adversely affect our ability to meet scheduled product deliveries to our customers, increase costs and in turn harm our business and results of operations.
- Limitations on ability to manage third-party risks. Our business with certain third-party manufacturers may represent a relatively small percentage of their revenue. Consequently, our orders may not be given adequate priority if such manufacturers have to allocate limited capacity among competing customers. This could delay supplies of product to us or limit our ability to ramp product volumes within desired timeframes. If any of our manufacturing partners are unable or unwilling to continue manufacturing our products in required volumes and at high quality levels, we would have to identify, qualify and select acceptable alternative manufacturers. The time it takes to qualify new third-party manufacturers could disrupt our ability to maintain continuous supply of product to meet customer requirements. An alternative manufacturer may not be available to us when needed or may not be in a position to satisfy our production requirements at commercially reasonable prices and quality. In addition, we and/or our manufacturers may not be able to negotiate commercially reasonable terms and sufficient quantities of component supplies with component and materials suppliers to meet our manufacturing needs because our purchase volumes may be too low for us to be considered a priority customer for securing supplies, particularly when there are shortages or limited availability of key components and materials. As a result, suppliers could stop selling to us and our manufacturers at commercially reasonable prices, or at all. While we have worked to mitigate the cost impact of recent price increases, those efforts may not be successful. Any such interruption or delay may force us and our manufacturers to seek components or materials from alternative sources, which may not be available, or result in higher prices. Switching suppliers could also force us to redesign our products to accommodate new components and could require us to re-qualify our products with our customers, which would be costly and time consuming. A significant interruption in manufacturing or supply availability for any of these reasons would reduce supply to our customers, which would result in lost revenue and harm our customer relationships.
- Ability to forecast and manage inventory liability with vendors. We have experienced increases in demand from many customers, in part as a result of higher consumer demand for internet services and improved Wi-Fi; in turn, this has resulted in our shipments being delayed. If we underestimate product demand from our customers, our manufacturers may have inadequate component inventory to meet our demand. If we are not able to adequately anticipate demand, this could interrupt our product manufacturing, increase our cost of revenue associated with expedite fees and air freight and/or result in delays or cancellation of customer orders. If we are unable to deliver products timely to our

customers, we may lose customer goodwill or our customers may choose to purchase from other vendors, all of which may have a material negative impact on our revenue and operating results. If we overestimate our product demand, our third-party manufacturers may purchase excess components and build excess inventory, and we could be required to pay for these excess parts or products and their storage costs. For example, as of December 31, 2023, we had inventory deposits totaling \$78.1 million. Long lead times for component supply, which have been exacerbated by higher demand for certain components, and demand for our products has and is expected to continue to impact our ability to accurately forecast our production requirements. We may incur liabilities for certain component inventory purchases that have been rendered excess or obsolete, which may have an adverse effect on our gross margin, financial condition and results of operations. For example, during the fourth quarter of 2023, we wrote down excess and obsolete inventory and accrued a liability for components at suppliers primarily related to the wind down of our legacy product family that existed before our shift to an all-platform model.

# Cyberattacks or other security incidents that disrupt our operations or compromise data, may expose us to liability, harm our reputation or otherwise adversely affect our business.

We rely on hardware, software, technology infrastructure, data centers, digital networks and online sites and services for both internal and customer-facing operations that are critical to our business, or collectively, IT Systems. In addition, as part of our business operations, we collect, store, process, use and/or disclose information, including sensitive data relating to our business and personal information about individuals such as our employees and our customers' subscribers, or collectively, Confidential Information. We process Confidential Information to operate our business, including in connection with the provision of our cloud services and by relying on our and our providers' IT Systems and data centers, including third-party data centers. We also engage third-party providers to support various internal functions, such as human resources, finance, information technology and electronic communications, as well as the development and delivery of our customer-facing products and cloud services, which includes collecting, handling, processing and/or storage of data on our behalf. These internal and external functions involve an array of software and systems, including cloud-based, that enable us to conduct, monitor and/or protect our business, operations, systems and information technology assets. Our cloud-based solutions enable us to host our customers' subscriber data in third-party data centers.

We face evolving cybersecurity risks that threaten the confidentiality, integrity and availability of our IT Systems and Confidential Information, including from diverse threat actors such as state-sponsored organizations, opportunistic hackers and hacktivists, as well as through diverse attack vectors such as social engineering/phishing, malware (including ransomware), malfeasance by insiders, human or technological error and, as a result of bugs, misconfigurations or exploited vulnerabilities in software or hardware. Threat actors could steal Confidential Information related to our business, products, employees, customers and our customers' subscribers; hold data ransom; and/or disrupt our systems and services or those of our supply chain partners, vendors, customers or others. We expect cybersecurity attacks and security breaches to accelerate in the future, including sophisticated supply chain attacks. As we and our third-party providers continue to increase our reliance on virtual environments and communications systems and cloud-based solutions to support our work-from-anywhere culture and overall business needs, our exposures to third-party vulnerabilities and security risks also increase. Because threat actors are increasingly sophisticated and aggressive, our efforts may be inadequate to prevent, detect or recover from future attacks due, for example, to the increased use by attackers of tools and techniques (including artificial intelligence) that are specifically designed to circumvent controls, to avoid detection, and to remove or obfuscate forensic evidence. We may also experience security breaches that may remain undetected for an extended period.

We and certain of our third-party providers have been subject to cyberattacks and other security incidents, and we expect such attacks and incidents to continue in varying degrees. There can be no assurance that our cybersecurity risk management program and processes, including our policies, controls or procedures, will be fully implemented, complied with or effective in protecting our IT Systems and Confidential Information. Accordingly, while to date no cybersecurity incidents have had a material impact on our operations or financial results, we cannot guarantee that material incidents will not occur in the future. A cyberattack or incident that affects the confidentiality, integrity or availability of our IT Systems or Confidential Information could result in significant investigative, security and remediation costs, regulatory fines and penalties and/or litigation costs and other liability. Even if we and our third-party providers allocate, implement and manage reasonable security and data protection measures, we could still experience significant data loss, unauthorized data disclosure or a breach of our IT Systems, products or those of our third-party providers (for example, data centers) that materially impact our business. The continued growth of our cloud-based platform and managed services portfolio and increased reliance on third-party development partners and third-party software and cloud-based solutions increases the likely risks arising from security breaches or data loss. Any data loss or compromise of our systems that collect and process personal information (including personal information of our customers' subscribers), or third-party data centers where that personal information is stored, could result in loss of confidence in the security of our offerings and loss of customers or customer goodwill. Further, security incidents could subject us to obligations under privacy and data security laws and regulations around the world (including to notify governmental authorities, regulatory bodies an

increase the risk of litigation and governmental or regulatory investigation, require us to notify our customers or other counterparties in relation to such incidents, damage our reputation and adversely affect our business, financial condition, operating results and cash flows. Although we maintain insurance that may apply to cybersecurity risks and liabilities, there can be no guarantee that any or all costs or losses incurred will be partially or fully insured or that we will be able to procure applicable insurance in the future on reasonable terms or at all.

# If we do not successfully increase our sales through adoption of our new platform and managed service offerings, our operating results, financial condition, cash flows and long-term growth may be negatively impacted.

We have platform and managed service offerings that are new and early in their life cycles and subject to uncertain market demand. If our customers are unwilling to adopt these new offerings, install our new products or deploy our new services, or if we are unable to achieve market acceptance of our products and platform, our business and financial results may be harmed. Moreover, adoption of our cloud product offerings, such as our Revenue EDGE, is dependent upon the success of our customers in investing, marketing, selling and deploying broader services—including managed services—to their subscribers, and our ability to differentiate our products from competing or substitutive product and service offerings. For example, our managed services include managed Wi-Fi, network security, parental controls and an ecosystem of services from partners, including Arlo, Bark and Servify. However, if subscriber demand for such services does not grow as expected or declines, or our customers are unable or unwilling to invest in our platform to deploy and market these services, demand for our products may not grow at rates as we anticipate.

# Changing market and customer requirements may adversely affect the valuation of our inventory as well as our supplier purchase commitments.

Customer demand for our products can change rapidly in response to market and technology developments. We may, from time to time, adjust inventory valuations downward or end of life certain of our products in response to our assessment of our business strategy as well as consideration of demand from our customers for specific products or product lines. We also periodically evaluate our supplier purchase commitments due to extended lead-times as a result of the global pandemic-induced demand pulse and corresponding impact on the supply-chain environment. We record a liability for excess and obsolete components based on our estimated future demand for our products, potential obsolescence of technology and product life cycles. If we fail to accurately plan our inventory levels, which becomes more challenging as component lead times increase, we may have to increase write offs for excess or obsolete inventory, or accrue additional liabilities for component inventory held by our suppliers, both of which could have a material adverse effect on our financial condition and results of operations. For example, during the fourth quarter of 2023, we wrote down obsolete inventory and accrued a liability for components at suppliers, totaling \$28.7 million, primarily related to the wind down of our legacy product family that existed before our shift to an all-platform model.

## Business and operational risks associated with expanding our international operations could harm our business.

We are subject to business and operational risks associated with our international operations, including our global supply-chain operations, and our international offices located in Nanjing, China and Bangalore, India as well as dependence upon our international sales operations. In addition, we are exposed to risk arising from dependence upon third-party development contractors in India. The risks associated with our international operations also include costs of complying with differing and changing laws and regulatory requirements, tariffs, export quotas, custom duties and other trade restrictions; effects of inflation, currency controls and/or fluctuations in currency exchange rates; limited, inadequate or non-existent IP protection; and uncertainties associated with political conflicts and instabilities, variable economic conditions, terrorist attacks or acts of war. Our development operations and activities in China and India involve these and other significant risks, including: local labor conditions and regulations; knowledge transfer related to our technology and exposure to misappropriation of IP or confidential information, including information that is proprietary to us, our customers and third parties; heightened exposure to changes in the economic, security, political and pandemic conditions; international trade agreements and U.S. tax provisions that could adversely affect our international operations; complexities of managing development timelines and deliverables from abroad; and differences in local business practices and customs that may not align with our expectations and standards.

Along with the foregoing risks, our international sales operations involve risks associated with greater costs and complexity localizing and supporting our products and platform in local markets; evolving privacy regulations, trade regulations, compliance requirements and incremental costs applicable to the qualification, production, sale and delivery of our products; longer collection periods, financial instability and other difficulties impacting collection of accounts receivable in certain jurisdictions; more intense competition including from local equipment suppliers; and our reliance on value added resellers to sell and support our products in international markets given our limited presence and infrastructure outside the U.S. To expand our international operations, we will need to invest resources to attract key talent, build operational infrastructure, execute on our international strategy and drive international market demand for our products. If we invest substantial resources to expand our international operations and are unable to do so successfully and in a timely manner, our financial condition and results of operations may suffer.

# If we do not successfully execute our business strategy to increase our sales to new and existing BSPs, our operating results, financial condition, cash flows and long-term growth may be negatively impacted.

Our growth depends upon our ability to increase sales to existing and new service providers of all types and sizes, and the execution of our strategy to increase sales to BSPs involves significant risk. The majority of our revenue is not recurring, and our customers generally have no committed purchase requirements, may cancel orders or cease purchasing our products at any time. If our customers stop purchasing our products for any reason, our business and results of operations would be harmed. If we are unable to increase our sales to new and existing BSPs, our operating results, financial condition, cash flows and long-term growth may be negatively impacted. Our strategy includes investing in regional sales teams and select channel partners to sell to smaller regional BSPs. A large portion of our current sales are to customers with smaller regional networks and limited capital expenditure budgets. The spending patterns of many of these customers are generally less formal than larger service providers and often characterized by small and sporadic purchases, and the potential revenue from any one of these customers is limited. We rely primarily on channel partners, including value added resellers, internationally and for certain U.S. markets. We face fierce competition for business with key channel partners. If we are unable to engage channel partners, we may fail to grow our sales, or our sales may be reduced. Furthermore, we rely on our channel partners to promote and sell our products. The loss of a key channel partner or the failure of our partners to provide adequate services could have a negative effect on customer satisfaction and could cause harm to our business.

Our selling efforts to larger BSPs require substantial investments of technical, marketing and sales resources through lengthy equipment qualification and sales cycles without any assurance of generating sales. We may be required to invest in costly upgrades to meet more stringent performance criteria and interoperability requirements, develop new customer-specific features or adapt our products to meet required standards. We have invested and expect to continue to invest considerable time, effort and expenditures, including investment in product research and development, related to these opportunities without any assurance that our efforts will result in revenue.

The quality of our support and services offerings is important to sustain and increase our sales to new and existing customers. Our services to customers include services to help them deploy our products within their networks. Once our products are deployed within our customers' networks, they depend on our customer success, customer support and research and development organizations to resolve any issues relating to those products. If we do not effectively assist our customers in deploying our products, succeed in helping them quickly resolve post-deployment issues, effectively utilize features or enhancements or provide effective support, it could adversely affect our ability to sell our products to existing customers and harm our reputation with potential new customers. As a result, our failure to maintain high quality support and services could result in the loss of customers, which would harm our business.

# We may have difficulty evolving and scaling our business and operations to meet customer and market demand, which could result in lower profitability or cause us to fail to execute on our business strategies.

In order to grow our business, we will need to continually evolve and scale our business and operations to meet customer and market demand. Evolving and scaling our business and operations places increased demands on our management as well as our financial and operational resources to effectively manage organizational change; design scalable processes; accelerate and/or refocus research and development activities; expand our manufacturing, supply chain and distribution capacity; increase our sales and marketing efforts; broaden our customer success, support and services capabilities; maintain or increase operational efficiencies; scale support operations in a cost-effective manner; implement appropriate operational and financial systems; and maintain effective financial disclosure controls and procedures. If we cannot evolve and scale our business and operations effectively, we may not be able to execute our business strategies in a cost-effective manner and our business, financial condition, profitability and results of operations could be adversely affected.

# Our business and results of operations have been, and may continue to be, negatively affected by global macroeconomic conditions and supply chain constraints, and the demand for broadband products may not be sustained.

Global macroeconomic, financial and supply chain disruptions have impacted most regions in which we sell our products and services and conduct our business operations. For example, BSPs may not invest in our platform or delay infrastructure improvements due to uncertainty in the global economy. There are no assurances that the demand for our products will remain strong. To the extent we experience a renewed or worsening disruption to our business and operations and other adverse residual impacts of a pandemic or further future disruptions, it could have a material adverse effect on our business, results of operations and financial condition.

# Litigation and regulatory proceedings could harm our business or negatively impact our results of operations.

In the ordinary course of business, we are subject to legal claims, litigation and regulatory proceedings related to disputes over commercial, competition, IP, labor and employment and other matters. Regardless of the merits of any such claims, litigation and regulatory proceedings are inherently uncertain, and can be costly, disruptive to our business and operations, harmful to our reputation and distracting to management. In particular, as a technology company, we are subject to IP claims asserting patent,

copyright, trademark and/or other infringement claims that are costly to defend and could limit our ability to use some technologies in the future. The risk of such claims is heightened as we expand our products and services and rely on more technologies, including third-party IP rights that we license and incorporate into our products and services. Third parties from whom we license IP may be unable or unwilling to indemnify us for such claims or offer any other remedy to us. Patent infringement claims may be asserted by patent assertion entities and non-practicing entities, or NPEs, that do not conduct business as an operating company and hold and own patents only for the purpose of aggressively pursuing royalties through infringement assertions or patent infringement litigation. Further, in our industry, the number of assertions by NPEs has continued to increase due in part to patent sales by operating companies to NPEs and availability of litigation financing. We have received and expect to continue to receive assertions from NPEs and other third parties alleging that we may be infringing their patents or other IP rights; offering licenses to such IP; and/or threatening litigation. If our products are found to infringe, these claims could also result in the suspension of our ability to import, market and sell our products and services, product shipment delays or requirements to modify our products or enter into costly settlements or licensing agreements. Such royalty or licensing agreements, if required, may not be available to us on acceptable terms, if at all. Furthermore, we may additionally be financially responsible for claims made against our customers, including costs of litigation and damages awarded, under indemnity obligations which could further negatively impact our results of operations. Protracted litigation could cause us to incur significant defense costs, which would negatively impact our results of operations.

# We have a history of fluctuations in our gross margin and operating results, which can make it difficult to predict our future performance and could cause the market price of our stock to decline.

We have a history of fluctuations in our quarterly and annual gross margin and operating results, including fluctuations due to factors outside of our control. Factors that impact variability of our operating results include our ability to predict our revenue and reduce and control our costs, our ability to predict product functions and features desired by our customers, the impact of global economic conditions, our ability to effectively manage our global supply chain operations, our ability to effectively manage third parties upon whom we depend to conduct our business, our customers' spending patterns and purchasing decisions, the impact of competition, customer adoption of our products, our ability to manage our legal, contractual and regulatory obligations and liabilities and other risk factors identified in "Management's Discussion and Analysis of Financial Condition and Results of Operations" and in this "Risk Factors" section. Our gross margin is further impacted by customer, geographic and product mix, the impact of competition on our prices, our ability to manage our costs associated with components and materials, excess and obsolescence, expedite fees and logistics-related activities, contractual commitments and other product costs. Fluctuating results make it difficult to predict our future performance and could cause the market price of our stock to decline. We expect to continue to incur significant expenses and cash outlays as we seek to expand our business and operations and target new customer opportunities. Given our growth objectives and the intense competitive pressures we face, our operating expenses may increase at unexpected levels, and we may be unable to maintain positive operating income. Comparing our operating results on a period-to-period basis may not be meaningful, and you should not rely on our past results as an indication of our future performance. If our revenue or operating results fall below the expectations of investors or securities analysts, or below any guidance we may p

# We are exposed to customer credit risks that could adversely affect our operating results and financial condition.

We generally extend credit terms for sales to our customers which exposes us to credit risk. If we are unable to collect our accounts receivable balances as anticipated, our operating results and financial condition will be harmed. A number of factors contribute to this risk, including our ability to adequately assess a customer's creditworthiness and financial condition, changes in a customer's financial condition and/or liquidity, our ability to timely collect our accounts receivable from customers, disagreements with customers on invoiced balances and economic downturns or other unanticipated events impacting a customer's ability to pay. Furthermore, some of our international customers operate in countries with developing economies, volatile financial markets or currency regulations that impact their ability to make payments in U.S. dollars. While we take measures to pursue collections on our accounts receivable, we have from time to time written down accounts receivable and written off doubtful accounts and may need to do so in future periods. The determination of allowances for doubtful accounts involves significant judgment, and if we underestimate our allowance for doubtful accounts, we will have to make further write-downs. Such write-downs or write-offs could negatively affect our operating results for the period in which they occur and could harm our cash flow or our financial condition.

# If we lose any of our key personnel, or are unable to attract, train and retain qualified personnel, our ability to manage our business and continue our growth would be negatively impacted.

Our success depends, in large part, on the continued contributions of our key personnel who are highly skilled and would be difficult to replace. Competition for skilled personnel, particularly in software and cloud development and engineering, is intense. We cannot be certain that we will be successful in attracting and retaining qualified personnel, or that newly hired personnel will function effectively, both individually and as a group. If we are unable to effectively recruit, hire and utilize new employees to align with our company objectives, execution of our business strategy and our ability to react to changing market conditions may be impeded, and our business, financial condition and results of operations may suffer. We operate using a

"work-from-anywhere" model, and if we do not continue to effectively manage our distributed workforce, we could face challenges maintaining our corporate culture, which could increase attrition or limit our ability to attract personnel. None of our key personnel are bound by a written employment contract to remain with us for a specified period. In addition, we do not currently maintain key person life insurance covering our key personnel. If we lose the services of any key personnel, our business, financial condition and results of operations may suffer.

If we experience disruptions with our enterprise resource planning system, we may not be able to effectively transact business or produce financial statements, which would adversely affect our business, results of operations and cash flows.

In January 2020, we migrated our Oracle enterprise resource planning, or ERP, system to Oracle's cloud platform. In 2022, we implemented a software billing application on Salesforce.com. With these implementations, we are highly dependent upon Oracle and Saleforce.com to host, manage and maintain our ERP system and supporting applications. Any disruptions to their business or processes, or delays in their ability to provide services to us, may in turn disrupt our business operations or increase costs. Furthermore, we receive quarterly system updates and enhancements on the cloud platform according to Oracle's release timeline and change management processes, which if not managed properly may disrupt our business operations and delay our ability to process transactions and produce reports necessary to conduct our business. We are highly dependent upon our ERP system for critical business functions, including order processing and management, supply chain and procurement operations, financial planning, accounting and reporting; accordingly, protracted disruption in functionality or processing capabilities of the ERP system could materially impair our ability to process transactions timely or produce accurate financial statements on a timely basis. If our systems suffer prolonged interruption, our results of operations and cash flows would be adversely affected.

# Risks Related to Our Products

Our products are highly technical and may contain undetected hardware or software defects or software bugs, which could harm our reputation and adversely affect our business.

Our products, including our platform (cloud, software and systems) and managed services, are highly technical and, when deployed, are critical to the operation of many networks. Our products have contained and are subject to defects, bugs or security vulnerabilities, which risks may be exacerbated as we continue to expand our cloud and software portfolio and include services from third-party partners. Some defects in our products may only be discovered after a product has been installed and used by customers and may in some cases only be detected under certain circumstances or after extended use. Any errors, bugs, defects or security vulnerabilities discovered in our products after commercial release could result in loss of revenue or delay in revenue recognition, loss of customers and increased service and warranty and retrofit costs, any of which could adversely affect our business, operating results and financial condition. In addition, we are subject to claims for security and data breach, product liability, tort or breach of warranty. Our contracts with customers contain provisions relating to warranty disclaimers and liability limitations, which may not be upheld. Defending a lawsuit, regardless of its merit, is costly and may divert management's attention and adversely affect the market's perception of us and our products. In addition, if our business liability insurance coverage proves inadequate or future coverage is unavailable on acceptable terms or at all, our business, operating results and financial condition could be adversely impacted.

# If we are unable to ensure that our products interoperate properly and as required within our customers' networks, our business will be harmed.

Our products must interoperate with our customers' existing and planned networks, which often have varied and complex specifications, utilize multiple protocol standards, include software applications and customizations and products from multiple vendors and contain multiple generations of products that have been added over time. As a result, we must continually ensure that our products interoperate properly with these existing and planned networks. To meet these requirements, we must undertake development efforts, including test protocols, that require substantial capital investment and employee resources. We may not accomplish these development goals quickly or cost-effectively, if at all. If we fail to maintain interoperability, we may face substantially reduced demand for our products, which would reduce our revenue opportunities and market share. We rely upon interoperability arrangements with equipment and software vendors for the use or integration of their technology with our products. If these relationships fail, we may have to devote substantially more resources to developing alternative products and processes and our efforts may not be as effective as the combined solutions under our current arrangements. In some cases, these other vendors are either direct competitors or companies that have extensive relationships with our existing and potential customers and influence the purchasing decisions of those customers. Some of our competitors have stronger relationships with some of our interoperability partners, and as a result, our ability to have successful interoperability arrangements with these companies may be harmed, which in turn may harm our ability to successfully sell and market our products.

# Our estimates regarding warranty or product obligations are highly subjective. If our estimates change, the liability for warranty or product obligations may be increased, impacting future cost of revenue.

Our products are highly complex, and our product testing may not be adequate to detect all defects, errors, failures and quality issues. Accordingly, our estimates regarding future warranty or product obligations are highly subjective, and if our estimates change, the liability for warranty or product obligations may be increased, impacting future cost of revenue. Quality or performance problems for products covered under warranty could adversely impact our reputation and negatively affect our operating results and financial position. The development and production of new products with high complexity often involves problems with software, components and manufacturing methods. Any significant warranty or other product obligations due to reliability or quality issues arising from defects in software, faulty components or improper manufacturing methods could negatively impact our operating results and financial position due to costs associated with fixing software or hardware defects; high service and warranty expenses; high inventory obsolescence expense; delays in collecting accounts receivable; payment of liquidated damages for performance failures; and loss of customer goodwill and future sales.

# Our business and operations depend on proprietary technologies, and our financial performance may suffer if we cannot protect and enforce our IP rights.

Our success and ability to compete depend on proprietary technology. We rely significantly upon patent, copyright, trademark, trade secret and other IP laws, IP registration rights and agreements with our employees, customers, partners, suppliers and other parties, to establish and maintain IP rights necessary for our business and operations. U.S. IP laws afford us only limited protection, and the laws of some foreign countries do not protect proprietary rights to the same extent or at all. Our patent applications may not result in issued patents, and our issued patents may not be enforceable. Our IP rights could be challenged, invalidated, infringed or circumvented, any of which could impair or harm our business and operations and be costly to defend. Our failure to adequately protect our IP rights could result in our competitors offering similar products, resulting in the loss of our competitive advantage and decreased sales.

We and our third-party providers may be unable to adequately prevent unauthorized third-party copying or use of our IP. For example, contractual provisions protecting our IP are subject to breach, and our IP is subject to reverse engineering and unlawful distribution. It may become more difficult to adequately protect our IP as we expand our reliance on third parties for the design, development and/or manufacture of our products. In addition, we may become subject to increased risks arising from or related to security breaches, data loss or theft of our data or our IP, and have greater difficulty protecting our IP as our work-from-anywhere workforce and work product become more distributed. Policing the unauthorized use and distribution of our IP is difficult and costly. Litigation, which could result in substantial costs, diversion of resources and harm to our business, may be necessary to enforce our IP rights, protect our trade secrets or determine the validity and scope of proprietary rights.

# If we are unable to obtain third-party technology licenses needed for our products and platform solutions, our business and operations will be impaired, and our operating results could be adversely affected.

We increasingly rely on technology licensed from third parties for our products and platform solutions. We may not be able to secure or maintain necessary technology licenses from these third parties on commercially reasonable terms or at all. Third parties may also choose to not renew licenses with us, demand unreasonable license fees or cease to offer technologies that we require. The inability to obtain necessary third-party licenses or to secure reasonable license terms at a cost acceptable to us could harm the competitiveness of our products and solutions, result in lost revenue and adversely affect our operating results. For example, we may be forced to forego product features or platform offerings, including features and offerings we believe are critical to our strategy, accept substitute technology of lower quality or performance standards or incur higher costs, or the time-to-market of our products or product features could be delayed. Furthermore, our ability to utilize third-party technology may be disrupted by disputes over IP rights, including claims of IP infringement, which could prevent us from offering or selling the products that utilize the disputed technology and adversely affect our operating results.

# Our use of open-source software could impose limitations on our ability to commercialize our products.

We incorporate open-source software into our products. The terms of many open-source software licenses have not been interpreted by the courts, and there is a risk that such licenses could be construed in a manner that could impose unanticipated conditions or restrictions on our ability to sell our products. In such event, we could be required to make our proprietary software generally available to third parties, including competitors, at no cost, to seek licenses from third parties in order to continue offering our products, to re-engineer our products or to discontinue the sale of our products in the event re-engineering cannot be accomplished on a timely basis or at all, any of which could adversely affect our revenue and operating expenses.

## Macroeconomic and Industry Risks

Adverse global economic, market and industry conditions, geopolitical issues and other conditions that impact our increasingly global operations could have a negative effect on our business, results of operations and financial condition and liquidity.

As a global company, our performance is affected by global economic, market and industry conditions as well as geopolitical issues and other conditions with global reach. In recent years, concerns about the global economic outlook, inflation and increased interest rates have adversely affected market and business conditions in general. Macroeconomic weakness and uncertainty make it more difficult for us to manage our operations and accurately forecast revenue, gross margin and operating expenses. Further, bank failures and other adverse developments that affect financial institutions, transactional counterparties, or other third parties, or concerns or rumors about these events, have led to market-wide liquidity problems.

Geopolitical issues, such as the Russian invasion of Ukraine, armed conflict in the Middle East, relations between the U.S. and China, tariff and trade policy changes, and increasing potential of conflict involving countries in Asia that are critical to our supply-chain operations, such as Taiwan and China, have resulted in increasing global tensions and create uncertainty for global commerce. In addition, inflation in the United States has affected businesses across many industries, including ours, by increasing the costs of labor, employee healthcare, components and freight and shipping, which may further constrain our customers' or prospective customers' budgets. To the extent there is a sustained general economic downturn, and our platform and services are perceived by customers or potential customers as costly, or too difficult to deploy or migrate to, our revenue may be disproportionately affected by delays or reductions in spending. Sustained or worsening of global economic conditions and geopolitical issues may increase our cost of doing business, materially disrupt our supply chain operations, cause our customers to reduce or delay spending and intensify pricing pressures. We cannot predict the timing, strength or duration of any economic slowdown, instability or recovery, generally or within any particular industry. If the economic conditions of the general economy or markets in which we operate worsen from present levels, demand for our products, and our business, financial condition and results of operations, could be adversely affected.

# We face intense competition that could reduce our revenue and adversely affect our financial results.

The market for our products is highly competitive, and we expect competition from both established and new companies to increase. Our ability to compete successfully depends on a number of factors, including our ability to successfully develop new products and solutions that anticipate BSP and market requirements and changes in technology and industry standards; BSP acceptance and adoption of our products and solutions; our ability to differentiate our products from our competitors' offerings based on performance, features, cost-effectiveness or other factors; our product capabilities to meet customer network requirements and preferences; and our success in marketing and selling our products and platform solutions.

Many of our current or potential competitors have longer operating histories, greater name recognition, broader product lines, larger customer bases and significantly greater financial, technical, sales, marketing and other resources than we do and are better positioned to acquire and offer complementary products and services. As the broadband access equipment market has undergone and continues to undergo consolidation, our competitors have merged, grown and been able to offer more comprehensive solutions than they individually had offered. Potential customers may also prefer to purchase from their existing suppliers rather than a new supplier, regardless of product performance or features, because the products that we and our competitors offer require a substantial investment of time and funds to qualify and install. The demand on network capacity due to remote workforces may attract new market entrants with competitive or substitutive products, which may lead to increased sales cycles, cause pricing pressure and impact adoption of our platform due to the broader availability of product offerings. Some of our competitors may offer substantial discounts or rebates to win or retain customers. If we are forced to reduce prices to retain existing customers or win new customers, we may be unable to sustain gross margin at desired levels or profitability. Competitive pressures could result in increased pricing pressure, reduced profit margin, increased sales and marketing expenses and failure to increase, or the loss of, market share, any of which could reduce our revenue and adversely affect our financial results.

Historically, our customer base has been concentrated, and the loss of any of our key customers may adversely impact our revenue and results of operations, and any delays in payment by a key customer could negatively impact our cash flows and working capital.

Although we have not had a greater-than-10%-of-revenue customer in the past three years, a large portion of our sales has been, and in the future may be, to a limited number of customers. Changes in the BSP market, such as financial difficulties, spending cuts or corporate consolidations that impact purchasing decisions by these customers have and may again negatively impact our revenue, and as a result, revenue from such customers may remain flat or decline. There are no assurances that the demand for our products will remain strong from our key customers, and any decrease or delay in purchases of any of our key customers, particularly if prolonged or sustained, or our inability to grow our sales with them, may have a material negative impact on our revenue and results of operations. As of December 31, 2023, two customers accounted for 19% and 14% of accounts receivable.

In addition, some larger customers may demand discounts and rebates or desire to purchase their access systems and software from multiple providers. As a result of these factors, our future revenue opportunities may be limited, and we may face pricing pressures, which in turn could adversely impact our gross margin and our profitability. The loss of, reduction in, or pricing discounts associated with orders from any larger customer could significantly reduce our revenue and harm our business. Furthermore, delays in payment and/or extended payment terms from any of our larger customers could have a material negative impact on our cash flows and working capital to support our business operations.

# Our industry is characterized by rapid technological advancements, and if we fail to develop new products or enhancements that meet changing BSP requirements, we could experience lower sales.

Our industry is characterized by rapid technological change, changing needs of BSPs, evolving industry standards and frequent introductions of new products and platform offerings. We invest significant amounts to pursue innovative technologies that we believe will be adopted by BSPs. For example, we have invested and plan to continue to invest resources in our platform offerings. In addition, on an ongoing basis, we expect to reposition our product and service offerings and introduce new offerings as we encounter rapidly changing BSP requirements and increasing competitive pressures. If we cannot increase sales of our new platform and services, keep pace with rapid technological developments to meet customer needs and compete with evolving standards or if the technologies we choose to invest in fail to meet customer needs or are not adopted by customers in the timeframes that we expect, our financial condition and results of operations would be adversely affected.

Developing our products is complex and involves uncertainties, including pricing risks for key materials, component shortages and limited suppliers. We may experience design, manufacturing, software development quality, support, marketing and other difficulties that could delay or prevent the development, introduction or marketing of new products and enhancements. If we fail to meet our development targets, demand for our products will decline. If we are unable to anticipate and develop new products or enhancements to our existing products on a timely and cost-effective basis, our products may become technologically obsolete more rapidly than anticipated over time, resulting in lower sales which would harm our business. Furthermore, the introduction of new or enhanced products also requires that we manage the transition from older products in accordance with customer requirements. If we fail to maintain compatibility requirements in our customers' networks, demand for our products would decline, which would reduce our revenue opportunities and market share.

We use third-party development partners both for their key skills and to augment our employee developers. Using third-party development partners for our broadband platform and managed services allow us to accelerate development and leverage the third parties' expertise, but increases our risks due to reduced direct control over the third party's work. This product development approach may cause unforeseen issues in product design, as well as challenges arising from integration and support of third-party features in our products. In addition, our revenue based on the third parties' product development work may take several years to cover our out-of-pocket expenses, if ever.

# Our sales cycles can be long and unpredictable, and our sales efforts require considerable time and expense. As a result, our sales are difficult to predict and may vary substantially, which may cause our operating results to fluctuate significantly.

The timing of our revenue is difficult to predict. Our sales efforts often involve educating BSPs about the use and benefits of our platform (cloud, software and systems) and managed services. BSPs typically undertake a significant evaluation process, which frequently involves not only our platform and managed services, but also those of our competitors and results in a lengthy sales cycle. Sales cycles for larger customers are relatively longer and require considerably more time and expense. We spend substantial time, effort and money in our sales efforts without any assurance that our efforts will produce sales. In addition, product purchases are frequently subject to budget constraints, multiple approvals and unplanned administrative, processing and other delays. The timing of revenue related to sales of products and services that have installation requirements may be difficult to predict due to interdependencies that may be beyond our control, such as BSP testing and turn-up protocols or other vendors' products, services or installations of equipment upon which our products and services rely. Such delays may result in fluctuations in our quarterly revenue. If sales expected from a specific customer for a particular quarter are not realized in that quarter or at all, we may not achieve our revenue forecasts, and our financial results would be adversely affected.

# Our business depends upon the capital spending patterns and decisions of BSPs, and any decrease or delay in capital spending by BSPs due to the timing and availability of capital and other causes would reduce our revenue and harm our business.

Demand for our products depends on the magnitude and timing of capital spending by BSPs as they construct, expand, upgrade and maintain their access networks as well as BSPs' adoption of our platform and managed services. Capital spending is cyclical in our industry, sporadic among individual BSPs and can change on short notice, which gives us little visibility into changes in spending behavior in any particular quarter. Capital spending for network infrastructure projects could be delayed or canceled in response to factors outside our control, such as reduced consumer spending, challenging capital markets or declining liquidity trends. BSP spending is also affected by reductions in budgets, including as a result of a general economic downturn, delays in purchasing cycles, access to government funding programs or capital markets, and seasonality and delays in capital allocation decisions. Historically, our customers may spend less or have less deployments in the first quarter due to

pending annual budgets or, in certain regions, due to weather conditions that inhibit outside fiber deployment, resulting in weaker demand for our products in the first quarter. Softness in demand in any of our customer markets, including due to macroeconomic conditions beyond our control or uncertainties associated with regulatory reforms, has and could in the future lead to unexpected decline or slowdown in customer capital expenditures. Further, BSPs may pursue capital investment in network technologies other than those offered by us or may choose not to adopt our products and platform solutions in their networks. Reductions in capital expenditures by BSPs would have a material negative impact on our revenue and results of operations and slow our rate of revenue growth. As a consequence, our results for a particular period may be difficult to predict, and our prior results are not necessarily indicative of results in future periods.

# Government-sponsored programs and U.S. federal government shutdowns could impact the timing and buying patterns of BSPs, which may cause fluctuations in our operating results.

We sell to BSPs, including U.S.-based IOCs, which rely significantly upon interstate and intrastate access charges and federal and state subsidies in the form of grants and other funding, such as the Federal Communications Commission's, or FCC's, Rural Digital Opportunity Fund, the CARES Act, Enhanced Alternative Connect America Cost Model, or the American Rescue Plan Act. The FCC and some states may change such payments and subsidies, which could reduce IOC revenue. Furthermore, many IOCs use or expect to use government-supported loan programs or grants, such as U.S. Department of Agriculture's Rural Utility Service or the U.S. Department of Commerce National Telecommunications and Information Administration's, or NTIA's, Broadband Equity, Access and Deployment, or BEAD, Program loans and grants, to finance capital spending. These government-supported loan programs and grants generally include conditions such as deployment criteria, domestic preference provisions and other requirements that apply to the project and selected equipment as conditions for funding. For example, the U.S. government recently passed The Infrastructure Investment Jobs Act, which charged the NTIA with establishing the BEAD Program and ensuring that BEAD-funded infrastructure projects comply with the Buy America Domestic Content Procurement Preference, or Buy America Preference, of the Build America, Buy America Act, or BABA. In accordance with BABA, the U.S. Department of Commerce has proposed to issue a limited, general applicability, nonavailability waiver of the Buy America Preference to recipients of Federal financial assistance under the NTIA's BEAD Program. Changes to the terms or administration of these programs, including uncertainty from government and administrative change, increasing focus on domestic requirements by the U.S. that may require re-assessment of compliance, potential funding limitations that impact our ability to meet program requirements or delays due to U.S. federal government shutdowns could reduce the ability of IOCs to access capital or secure funding under these programs to purchase our products and services and thus reduce our revenue opportunities. In addition, compliance with these requirements may significantly increase our record-keeping, accounting and production costs. As a result of these risks, the domestic content requirements may have a material adverse impact on our U.S. sales, business and results of operations. Customers may curtail purchases if they receive less funding than planned, are negatively impacted by federal government shutdowns or changes in government regulations and subsidies, or as funding winds down, any of which could have an adverse effect on our operating results and financial condition.

# Government and Regulatory Risks

# Actual or perceived failure to comply with applicable data privacy and security laws, regulations and standards could impact our business, operations, and expose us to increased liability.

Government authorities in the United States and around the world have implemented and are continuing to implement broader and more stringent laws and regulations concerning data protection. The interpretation and application of these data protection laws and regulations are often uncertain and changing, and it is possible that they may be interpreted and applied in a manner that is inconsistent with our data practices.

For example, in the U.S., certain states have adopted privacy and security laws and regulations which govern the privacy, processing and protection of personal information. Such laws and regulations will be subject to interpretation by various courts and other governmental authorities, thus creating potentially complex compliance issues for us and our future customers and strategic partners. For example, the California Consumer Privacy Act of 2018, or CCPA, went into effect on January 1, 2020. The CCPA creates individual privacy rights for California consumers and increases the privacy and security obligations of entities handling certain personal information. The CCPA provides for civil penalties for violations, as well as a private right of action for data breaches that has increased the likelihood of, and risks associated with data breach litigation. Further, the California Privacy Rights Act, or CPRA, generally went into effect on January 1, 2023, and significantly amends the CCPA. It imposes additional data protection obligations on covered businesses, including additional consumer rights processes, limitations on data uses, new audit requirements for higher risk data, and opt outs for certain uses of sensitive data. It also created a new California data protection agency authorized to issue substantive regulations and could result in increased privacy and information security enforcement. Additional compliance investment and potential business process changes may also be required. Similar laws have been passed in other states, and are continuing to be proposed at the state and federal level, reflecting a trend toward more stringent privacy legislation in the United States. Most of the new or proposed laws include restrictions on processing consumer information for targeted advertising, which could negatively affect our marketing cloud products. The enactment of such laws could have potentially conflicting requirements that would make compliance challenging.

In the event that we are subject to or affected by the CCPA, the CPRA or other domestic privacy and data protection laws, any liability from failure to comply with the requirements of these laws could adversely affect our financial condition.

Furthermore, the Federal Trade Commission, or FTC, and many state Attorneys General continue to enforce federal and state consumer protection laws against companies for online collection, use, dissemination and security practices that appear to be unfair or deceptive. For example, according to the FTC, failing to take appropriate steps to keep consumers' personal information secure can constitute unfair acts or practices in or affecting commerce in violation of Section 5(a) of the Federal Trade Commission Act. The FTC expects a company's data security measures to be reasonable and appropriate in light of the sensitivity and volume of consumer information it holds, the size and complexity of its business, and the cost of available tools to improve security and reduce vulnerabilities.

The General Data Protection Regulation, or EU GDPR, adopted by the European Union, or EU, and the UK General Data Protection Regulation, or UK GDPR, adopted by the United Kingdom, or UK, (the EU GDPR and UK GDPR hereinafter referred to as the GDPR) and national data protection supplementing laws in these jurisdictions impose specific duties and requirements upon companies that are subject to their provisions and collect, process or control personal data of individuals, including a principle of accountability and the obligation to demonstrate compliance through policies, procedures, training and audit. Although we currently do not have material operations or business in the EU or the UK, we are in the process of expanding in these jurisdictions, and we have incurred and will continue to incur substantial costs in this respect. Furthermore, the GDPR imposes significant penalties for noncompliance which can amount to €20 million (for the EU GDPR) or £17.5 million (for the UK GDPR), or in the case of an undertaking, up to 4% of the total worldwide annual turnover of the preceding financial year, whichever is higher; thus, any non-compliance with the GDPR could result in a material adverse effect on our business, financial condition and results of operations.

The EU GDPR and UK GDPR regulate cross-border transfers of personal data out of the European Economic Area, or the EEA, and the UK. Case law from the Court of Justice of the European Union, or the CJEU, held that transfers must be assessed on a case-by-case basis and reliance on standard contractual clauses (a standard form of contract approved by the European Commission as an adequate mechanism for personal data transfers) may not be sufficient in all circumstances. On October 7, 2022, President Biden signed an Executive Order on Enhancing Safeguards for United States Intelligence Activities. This introduced new binding safeguards to address the concerns raised by the CJEU in relation to data transfers from the EEA to the United States and formed the basis of the new EU-US Data Privacy Framework, or DPF, which was released on December 13, 2022. The European Commission adopted its Adequacy Decision in relation to the DPF on July 10, 2023, rendering it effective as an EU GDPR transfer mechanism to U.S. entities selfcertified under the DPF; further, on October 12, 2023, the UK Extension to the DPF came into effect (as approved by the UK Government), as a UK GDPR data transfer mechanism to U.S. entities self-certified under the UK Extension to the DPF. We currently rely on the standard contractual clauses and the UK International Data Transfer Agreement (or Addendum) to transfer personal data outside the EEA and the UK respectively, including to the U.S. The data transfers enforcement landscape and the DPF's longer term stability remain uncertain and we expect the existing legal complexity and uncertainty regarding international personal data transfers to continue. As the regulatory guidance and enforcement landscape in relation to data transfers further develops, our business, operations and financial condition could be adversely affected. Our current contracts may not be sufficient, and we could suffer additional costs, complaints and/or regulatory investigations or fines. We may also have to stop using certain tools and vendors and make other operational changes. We have had to and will have to implement standard contractual clauses and/or the UK equivalent mechanism for intragroup, customer and vendor arrangements. Further, our customers may not use our services in a manner that is compliant with applicable data privacy laws and regulations and our services may not be competitive in certain markets.

We and/or our customers are also subject to evolving EU and UK privacy laws on cookies, tracking technologies, e-marketing and electronic communications. Recent European court and regulator decisions are driving increased attention to cookies and tracking technologies. If the trend of increasing enforcement by regulators of the strict approach to opt-in consent for all but essential use cases, as seen in recent guidance and decisions continues, this could lead to substantial costs, require significant systems changes, limit the effectiveness of marketing activities conducted on behalf of our customers, divert the attention of our technology personnel, adversely affect our margins, and subject us to additional liabilities. In addition, new security regulations, such as the EU's Network and Information Security 2 Directive (NIS2) and the UK's Telecommunications (Security) Act 2021 together with its implementing regulations impose further security obligations, including on electronic communications networks and services. We may be required to implement (and contractually commit to) additional security measures to remain a competitive vendor, as customers will need to ensure their vendors are able to meet the obligations that they are themselves subject to, or customers may choose different vendors due to our security measures. This could result in additional costs and require operational changes which could adversely affect our business, operations and financial condition.

In light of the complex and evolving nature of EU, EU Member State and UK privacy and security laws, there can be no assurances that we will be successful in our efforts to comply with such laws; violations of such laws could result in regulatory investigations, fines, orders to cease/change our use of technologies and/or our processing activities, enforcement notices and assessment notices (for a compulsory audit), as well as lead to civil claims including class actions, and reputational damage.

Complying with new and changing laws could cause us to incur substantial costs in order to market and sell our cloud-based solutions in the U.S. and internationally, deter customers from adopting our cloud-based solutions or require us to redesign our platform in order to meet customer requirements related to such laws. Regulatory actions or claims involving our practices in the collection, storage, processing, use or disclosure of consumer information or other personal data, even if unfounded, could damage our reputation and adversely affect our operating results. The failure or perceived failure to comply may result in government or civil proceedings or actions against us, or could cause us to lose customers, which could have an adverse effect on our business.

# If we fail to comply with evolving industry standards, sales of our products would be adversely affected.

Our products are subject to a significant number of domestic and international standards, which evolve as new technologies are developed and deployed. As we expand into new global markets, we are likely to encounter additional standards. Our products must comply with these standards in order to be widely marketable. In some cases, we are required to obtain certifications or authorizations before our products can be introduced, marketed or sold in new markets or to new customers. For example, our ability to maintain Operations System Modification for Intelligent Network Elements certification for our products will affect our ongoing ability to continue to sell our products to large BSPs. In addition, our ability to expand our international operations may be limited by standards in countries or may require us to redesign our products or develop new products to meet local standards. We may not be able to design our products to comply with local requirements, which would impede or prevent our ability to grow our business in those locations. Moreover, as we expand our business and operations globally, we must increase investments to maintain compliance with evolving standards across all of our markets. The costs of complying with evolving standards or failure to obtain timely authorizations or certification could prevent us from selling our products where these standards or regulations apply, which would result in lower revenue and lost market share.

# Our failure or the failure of our manufacturers to comply with environmental and other legal regulations could adversely impact our results of operations.

The manufacture, assembly and testing of our products may require the use and disposal of hazardous materials that are subject to environmental, health and safety regulations, or materials subject to laws restricting the use of conflict minerals. We substantially depend upon our third-party manufacturers to comply with these requirements. Any failure by us or our third-party manufacturers to comply with these requirements could result in regulatory penalties, legal claims or disruption of production of our products. In addition, any failure to properly manage the use, transportation, emission, discharge, storage, recycling or disposal of hazardous materials could subject us to increased costs or liabilities. Existing and future environmental regulations and other legal requirements may restrict our use of certain materials to manufacture, assemble and test products. Any of these consequences could adversely impact our results of operations by increasing our expenses and/or requiring us to alter our manufacturing processes.

# We are subject to governmental export and import controls that could subject us to liability or impair our ability to compete in additional international markets.

Our products are subject to U.S. export and trade controls and restrictions. International shipments of certain of our products may require export licenses or are subject to additional export requirements. In addition, the import laws of other countries may limit our ability to distribute our products, or our customers' ability to buy and use our products, in those countries. Changes in our products or changes in export and import regulations or duties may create delays in the introduction of our products in international markets, prevent our customers with international operations from deploying our products or, in some cases, prevent the export or import of our products to certain countries altogether. Any change in export or import regulations, duties or related legislation, shift in approach to the enforcement or scope of existing regulations, or change in the countries, persons or technologies targeted by such regulations, could negatively impact our ability to sell, profitably or at all, our products to existing or potential international customers.

# Regulatory and physical impacts of climate change and other natural events may affect our customers and our manufacturers, resulting in adverse effects on our operating results.

As emissions of greenhouse gases continue to alter the composition of the atmosphere, affecting large-scale weather patterns and the global climate, any new regulation of greenhouse gas emissions may result in additional costs to our customers and our manufacturers. In addition, the physical impacts of climate change and other natural events, including changes in weather patterns, drought, rising ocean and temperature levels, earthquakes and tsunamis may impact our customers, suppliers and manufacturers and our operations. These potential physical effects may adversely affect our revenue, costs, production and delivery schedules, and cause harm to our results of operations and financial condition.

# Our customers are subject to government regulation, and changes in current or future laws or regulations that negatively impact our customers could harm our business.

Many of our customers are subject to state and federal regulation of their businesses, and adoption of regulations that affect providers of broadband Internet access services could impede the penetration of our customers into certain markets. For

example, the FCC has jurisdiction over many of our U.S. customers, and FCC regulatory policies that create disincentives for investment in access network infrastructure or impact the competitive environment in which our customers operate may harm our business. Moreover, various international regulatory bodies have jurisdiction over certain of our customers outside the U.S. Changes in any of these standards, laws and regulations, or judgments in favor of plaintiffs in lawsuits against BSPs based on changed standards, laws and regulations could adversely affect the development of broadband networks and services. This, in turn, could directly or indirectly adversely impact the industries in which our customers operate.

# Risks Related to Ownership of Our Common Stock and Other Risks

# Our stock price may continue to be volatile, and the value of an investment in our common stock may decline.

The trading price of our common stock has been, and is likely to continue to be, volatile, which means that it could decline substantially within a short period of time and could fluctuate widely in response to various factors, some of which are beyond our control. These factors include those discussed above and others such as quarterly variations in our results of operations or those of our competitors; failure to meet any guidance that we have previously provided regarding our anticipated results; changes in earnings estimates or recommendations by securities analysts; failure to meet securities analysts' estimates; announcements by us or our competitors of new products, significant contracts, commercial relationships, acquisitions or capital commitments; developments with respect to IP rights; our ability to develop and market new and enhanced products on a timely basis; our commencement of, or involvement in, litigation and developments relating to such litigation; changes in governmental regulations; and a slowdown in the communications industry or the general economy.

The stock market in general, and the market for technology companies in particular, has experienced extreme price and volume fluctuations that have often been unrelated or disproportionate to the operating performance of those companies. Broad market and industry factors may seriously affect the market price and volatility of our common stock, regardless of our actual operating performance. Historically, following periods of volatility in the market price of a company's securities, there is increased risk that stockholders may initiate securities class action litigation against the company. Such litigation, if instituted against us, could result in substantial costs and a diversion of our management's attention and resources.

# Provisions in our charter documents and under Delaware law could discourage a takeover that stockholders may consider favorable and may lead to entrenchment of our management and Board of Directors.

Our amended and restated certificate of incorporation and amended and restated bylaws contain provisions that could have the effect of delaying or preventing changes in control or changes in our management or our Board of Directors. These provisions include: (1) a classified Board of Directors with three-year staggered terms, which may delay the ability of stockholders to change the membership of a majority of our Board of Directors; (2) no cumulative voting in the election of directors, which limits the ability of minority stockholders to elect director candidates; (3) the exclusive right of our Board of Directors to elect a director to fill a vacancy created by the expansion of the Board of Directors or the resignation, death or removal of a director, which prevents stockholders from being able to fill vacancies on our Board of Directors; (4) the ability of our Board of Directors to issue shares of preferred stock and to determine the price and other terms of those shares, including preferences and voting rights, without stockholder approval, which could be used to significantly dilute the ownership of a hostile acquirer; (5) a prohibition on stockholder action by written consent, which forces stockholder action to be taken at an annual or special meeting of our stockholders; (6) the requirement that a special meeting of stockholders may be called only by the chairman of the Board of Directors, the chief executive officer or the Board of Directors, which may delay the ability of our stockholders to force consideration of a proposal or to take action, including the removal of directors; and (7) advance notice procedures that stockholders must comply with in order to nominate candidates to our Board of Directors or to propose matters to be acted upon at a stockholders' meeting, which may discourage or deter a potential acquirer from conducting a solicitation of proxies to elect the acquirer's own slate of directors or otherwise attempting to obtain control of us. We are also subject to certain anti-takeover provisions under Delaware law, which prohibits a corporation, in general, from engaging in a business combination with any holder of 15% or more of its capital stock unless the holder has held the stock for three years or, among other things, the Board of Directors has approved the transaction.

# We may need additional capital in the future to finance our business.

While our working capital needs to support our business operations and growth have been funded from operating cash flows in the near term, we may need additional capital if our current plans and assumptions change. If our financial position deteriorates, we may not be able to secure a source of financing to support our working capital needs on acceptable terms or at all. If future financings involve the issuance of equity securities, our then-existing stockholders will suffer dilution. If we raise debt financing, we may be subject to restrictive covenants that limit our ability to conduct our business. If we are unable to sustain positive operating income and cash flows from operations, our liquidity, results of operations and financial condition may be adversely affected. Furthermore, if we are unable to generate sufficient cash flows to support our operational needs, we may need to cease our common stock repurchase program or seek additional sources of liquidity, including borrowings, to support our working capital needs, even if we believe we have generated sufficient cash flows to support our operational needs. There is no assurance that any other sources of liquidity may be available to us on acceptable terms or at all. If we are unable to generate

sufficient cash flows or obtain other sources of liquidity, we will be forced to limit our development activities, reduce our investment in growth initiatives and institute cost-cutting measures, all of which would adversely impact our business and growth.

We do not currently intend to pay dividends on our common stock and, consequently, our stockholders' ability to achieve a return on their investment will depend on appreciation in the price of our common stock.

We do not currently intend to pay a cash dividend on our common stock for the foreseeable future. We currently intend to invest our future earnings, if any, to fund our growth. Therefore, our stockholders are not likely to receive any dividends on our common stock for the foreseeable future.

Our failure to adequately address and resolve risks and uncertainties associated with acquisitions could have a material adverse impact on our financial condition and results of operations.

We may acquire businesses, products or technologies to expand our product offerings and capabilities, customer base and business. We have evaluated and expect to continue to evaluate a wide array of potential strategic transactions. Such investments may involve significant risks and uncertainties, including distraction of management from current operations, unanticipated costs, and legal and regulatory challenges, all of which could have a material adverse impact on our financial condition and results of operations. In addition, the anticipated benefit of any acquisition may never materialize or the process of integrating acquired businesses, products or technologies may create unforeseen operating difficulties and expenditures.

We cannot guarantee that our stock repurchase program will be utilized to the full value approved or that it will enhance long-term stockholder value. Repurchases we consummate could increase the volatility of the price of our common stock and could have a negative impact on our available cash balance.

We have a common stock repurchase program of which \$113.6 million was available as of December 31, 2023. Under the repurchase program, repurchases can be made from time to time using a variety of methods, which may include open market purchases, privately negotiated transactions or otherwise, all in accordance with the rules of the SEC and other applicable legal requirements. The specific timing, price and size of the purchases will depend on prevailing stock prices, general economic and market conditions, and other considerations consistent with our capital allocation strategy. Stock repurchases could have an impact on our common stock trading prices, increase the volatility of the price of our common stock, or reduce our available cash balance such that we will be required to seek financing to support our operations. The repurchase program does not obligate us to acquire a particular amount of common stock, and the repurchase program may be suspended or discontinued at any time at our discretion, which may result in a decrease in the trading prices of our common stock. Even if our share repurchase program is fully implemented, it may not enhance long-term stockholder value.

#### General Risks

As a public company, we are subject to significant accounting, legal and regulatory requirements; our failure to comply with these requirements may adversely affect our operating results and financial condition.

We are subject to significant accounting, legal and regulatory requirements, including requirements and rules under the Sarbanes-Oxley Act, or SOX, and the Dodd-Frank Wall Street Reform and Consumer Protection Act, or Dodd-Frank, among other rules and regulations implemented by the SEC, as well as listing requirements of the New York Stock Exchange, or NYSE. We incur significant accounting, legal and other expenses and must invest substantial time and resources to comply with public company reporting and compliance requirements, including costs to ensure we have adequate internal controls over accounting and financial reporting, proper documentation and testing procedures among other requirements. We cannot be certain that the actions we have taken to implement internal controls over financial reporting will be sufficient. We have in the past discovered, and may in the future discover, areas of our internal financial and accounting controls and procedures that need improvement, particularly as we enhance, automate and improve functionality of our processes and internal applications. New laws and regulations as well as changes to existing laws and regulations affecting public companies would likely result in increased costs to us as we respond to their requirements. We continue to invest resources to comply with evolving laws and regulations, and this investment may result in increased general and administrative expense.

If we fail to maintain proper and effective internal controls, our ability to produce accurate financial statements on a timely basis could be impaired, which would adversely affect our operating results and our stock price.

Our management is responsible for establishing and maintaining adequate internal control over financial reporting to provide reasonable assurance regarding the reliability of our financial reporting and the preparation of financial statements in accordance with U.S. generally accepted accounting principles. Our management does not expect that our internal control over financial reporting will prevent or detect all error and all fraud. A control system, no matter how well designed and operated, can provide only reasonable, not absolute, assurance that the control system's objectives will be met. Because of the inherent limitations in all control systems, no evaluation of controls can provide absolute assurance that misstatements due to error or fraud will not occur or that all control issues and instances of fraud, if any, within our company will have been detected. If we

are unable to produce accurate financial statements on a timely basis, investors could lose confidence in the reliability of our financial statements, which could cause the market price of our common stock to decline and make it more difficult for us to finance our operations and growth.

#### ITEM 1B. Unresolved Staff Comments

None.

# ITEM 1C. Cybersecurity

#### Cybersecurity Risk Management and Strategy

We have developed and implemented a cybersecurity risk management program intended to protect the confidentiality, integrity and availability of our critical systems and information.

We design and assess our program based on the National Institute of Standards and Technology Cybersecurity Framework, or NIST CSF, and the MITRE ATT&CK® Framework. This does not imply that we meet any particular technical standards, specifications or requirements, only that we use the NIST CSF and the MITRE ATT&CK® as a guide to help us identify, assess and manage cybersecurity risks relevant to our business.

Our cybersecurity risk management program is integrated into our overall enterprise risk management program and shares common methodologies, reporting channels and governance processes that apply across the enterprise risk management program to other legal, compliance, strategic, operational, and financial risk areas.

Key aspects of our cybersecurity risk management program include the following:

- risk assessments designed to help identify material cybersecurity risks to our critical systems, information, products, services and our broader enterprise IT environment;
- a security team principally responsible for managing (1) our cybersecurity risk assessment processes, (2) our security controls and (3) our response to cybersecurity incidents:
- the use of external service providers, where appropriate, to assess, test or otherwise assist with aspects of our security controls and processes;
- · cybersecurity awareness training of our employees, incident response personnel and senior management;
- a cybersecurity incident response plan that includes procedures for responding to cybersecurity incidents; and
- a third-party risk management process for key service providers, suppliers and vendors.

We have not identified risks from known cybersecurity threats, including as a result of any prior cybersecurity incidents, that have materially affected us, including our operations, business strategy, results of operations or financial condition. We face risks from certain cybersecurity threats that, if realized, are reasonably likely to materially affect us, including our operations, business strategy, results of operations, or financial condition. See Item 1A "Risk Factors – Cyberattacks or other security incidents that disrupt our operations or compromise data, may expose us to liability, harm our reputation or otherwise adversely affect our business."

# Cybersecurity Governance

Our Board considers cybersecurity risk as part of its risk oversight function and has delegated to the Cybersecurity Committee (the "Committee") since its formation in 2017 oversight of business continuity, cybersecurity and other information technology risks. The Committee oversees management's implementation of our cybersecurity risk management program.

The Committee receives quarterly reports from management on our cybersecurity risks. In addition, management updates the Committee, as necessary, regarding any significant cybersecurity incidents.

The Committee reports to the full Board regarding its activities, including those related to cybersecurity. The full Board also receives briefings from management on our cyber risk management program. Board members receive presentations on cybersecurity topics from our management team, internal security staff or external experts as part of the Board's continuing education on topics that impact public companies.

Our Chief Commercial Operations Officer and Chief Product Officer are primarily responsible for assessing and managing our material risks from cybersecurity threats and supervise both our internal cybersecurity personnel and our retained external cybersecurity consultants. They stay informed about and monitory the prevention, detection, mitigation and remediation of key cybersecurity risks and incidents through various means, which may include briefings with internal and external security team

members, threat intelligence and other information obtained from public or private sources and alerts and reports produced by security tools deployed in the IT environment.

Our cybersecurity management team includes our corporate vice president of information technology, who leads the operational teams responsible for enterprise security, data governance and enterprise incident response, and global operations, and our senior vice president of cloud and engineering operations, who leads the operational teams responsible for product and cloud security, data governance and product security incident response. Our operational cybersecurity teams are comprised of members with decades of collective experience in IT security systems, tooling, operations, and governance, and hold various IT security industry certifications and have received specialized cybersecurity training.

# ITEM 2. Properties

We currently lease our corporate headquarters in San Jose, California. In addition to our headquarters site, we lease additional office space in China, India and the United States. We believe that our facilities are in good condition and are generally suitable to meet our needs for the foreseeable future. We believe that prior to expiration of our current office space leases that we can renew or obtain suitable lease space on commercially reasonable terms for our business needs. In addition, we may continue to seek additional space as needed, and we believe this space will be available on commercially reasonable terms.

# ITEM 3. Legal Proceedings

From time to time, we are involved in various legal proceedings arising from the normal course of business. We are not currently a party to any legal proceedings that, if determined adversely to us, in our opinion, are currently expected to individually or in the aggregate have a material adverse effect on our business, operating results or financial condition taken as a whole.

## ITEM 4. Mine Safety Disclosures

Not applicable.

#### PART II

# ITEM 5. Market for Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities

# **Comparative Stock Prices**

Our common stock has been trading on the New York Stock Exchange, under the trading symbol "CALX" since our initial public offering on March 24, 2010. Prior to this time, there was no public market for our common stock.

# **Number of Common Stockholders**

As of February 9, 2024, the approximate number of holders of our common stock was 1,151 (not including beneficial owners of stock held in street name).

## Securities Authorized for Issuance under Equity Compensation Plans

The information required by this item is incorporated by reference to our 2023 Annual Report to Stockholders, which includes our definitive Proxy Statement for our 2024 Annual Meeting of Stockholders.

#### **Dividends**

We have never declared or paid a cash dividend on our common stock, and we do not currently intend to pay any cash dividends on our common stock in the foreseeable future.

# **Recent Sales of Unregistered Securities**

None.

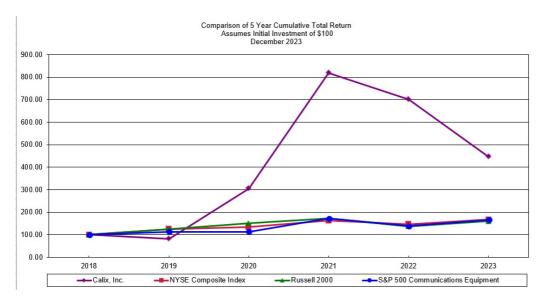
# **Issuer Purchases of Equity Securities**

We maintain a common stock repurchase program. In November 2023, our Board of Directors authorized a \$100 million increase to this program. Our repurchase activity for the three months ended December 31, 2023 was as follows (in thousands, except per share amounts):

	Total Number of Shares Repurchased	Average Price Paid Per Share	Total Number of Shares Repurchased as Part of Publicly Announced Plans or Programs	Approximate Dollar Value of Shares That May Yet Be Purchased Under the Plans or Programs
October 1 to October 31	485	\$ 35.07	485	\$ 40,587
November 1 to November 30	772	34.96	772	113,603
December 1 to December 31	_	_	_	113,603
	1,257		1,257	

# Performance Graph

The following graph shows a comparison of the cumulative total stockholder return on our common stock with the cumulative total returns of the NYSE Composite Index, Russell 2000 Index and the S&P 500 Communications Equipment Index. The graph tracks the performance of a \$100 investment in our common stock and in each of the indexes during the last five fiscal years ended December 31, 2023. Data for the Russell 2000 Index and S&P 500 Communications Equipment assume reinvestment of dividends. Stockholder returns over the indicated period are based on historical data and should not be considered indicative of future stockholder returns.



This performance graph shall not be deemed "soliciting material" or to be "filed" with the SEC for purposes of Section 18 of the Securities Exchange Act of 1934, as amended, or otherwise subject to the liabilities under that Section, and shall not be deemed to be incorporated by reference into any filing of Calix, Inc. under the Securities Act of 1933, as amended.

## ITEM 6. [Reserved]

## ITEM 7. Management's Discussion and Analysis of Financial Condition and Results of Operations

The Management's Discussion and Analysis of Financial Condition and Results of Operations contains forward-looking statements regarding future events and our future results that are subject to the safe harbors created under the Securities Act of 1933 (the "Securities Act") and the Securities Exchange Act of 1934 (the "Exchange Act"). All statements other than statements of historical facts are statements that could be deemed forward-looking statements. These statements are based on current expectations, estimates, forecasts and projections about the industry in which we operate and the beliefs and assumptions of our management. In some cases, forward-looking statements can be identified by the use of words such as "believe," "could," "expect," "may," "estimate," "continue," "anticipate," "intend," "should," "plan," "predict," "will," "would," "project," "potential," or the negative thereof or other comparable terminology. In addition, any statements that refer to projections of our future financial performance, our anticipated growth and trends in our business and industry and other characterizations of future events or circumstances are forward-looking statements. Readers are cautioned that these forward-looking statements are only predictions and are subject to risks, uncertainties and assumptions that are difficult to predict, including those identified in the Risk Factors discussed in Item 1A, in the discussion below, as well as in other sections of this Annual Report on Form 10-K. Therefore, actual results may differ materially and adversely from those expressed in any forward-looking statements. All forward-looking statements or reasons why actual results might differ.

## Overview

We develop, market and sell our platform (cloud, software and systems) and managed services that enable service providers of all types and sizes to innovate and transform their businesses. For our customers to successfully transform their businesses into the innovative BSPs of the future, they require actionable data for critical business functions such as network operations, customer support and marketing. However, this data is often trapped in disparate systems or departmental silos. Our platform, which includes Calix Cloud, Revenue EDGE and Intelligent Access EDGE, gathers, analyzes and applies machine learning to deliver real-time insights seamlessly to each key business function. Our customers utilize these insights to simplify network operations, marketing and customer support and deliver a growing portfolio of SmartLife managed services and experiences that excite their subscribers. This enables BSPs to grow their brand through increased subscriber acquisition, loyalty and revenue and to reduce their operating costs, creating value for their businesses and the communities they serve.

We market our platform and managed services to communication service providers globally through our direct sales force as well as select resellers. Our customers range from smaller, regional service providers to some of the world's largest service

providers. Customers are defined into small (less than 250,000 subscribers), medium (250,000 to 2.5 million subscribers) or large (greater than 2.5 million subscribers). We have approximately 1,600 active customers that have deployed passive optical, Active Ethernet or point-to-point Ethernet fiber access networks or our subscriber premise systems.

Our revenue and potential revenue growth will depend on our ability to develop, market and sell our platform and managed services to strategically aligned customers of all types such as WISPs, fiber overbuilders, cable MSOs, municipalities and electric cooperatives in the United States and internationally. Our growth is also highly dependent on the speed and willingness of customers to adopt our platform and managed services.

Revenue fluctuations result from many factors, including, but not limited to: increases or decreases in customer orders for our products and services, market, financial or other factors that may delay or materially impact customer purchasing decisions, non-availability of products due to supply chain challenges, including component and labor shortages and increasing lead times as well as disruptions as a result of pandemics or natural disasters, contractual terms with customers that result in delayed revenue recognition and varying budget cycles and seasonal buying patterns of our customers. More specifically, our customers have in the past spent less in the first quarter as they are finalizing their annual budgets, and in certain regions, customers are challenged by winter weather conditions that inhibit fiber deployment in outside infrastructure. In recent years, as our revenue from our large customers decreased, we have experienced less year-end volatility due to capital budgetary spending or freezing. This, combined with an increase in recurring revenue, has resulted in smaller seasonal fluctuations, and we expect this trend to continue. Our revenue is also dependent upon our customers' success in growing their subscribers, timing of purchases, capital expenditure plans and decisions to upgrade their networks or adopt new technologies, including adoption of our software and cloud platform solutions, as well as our ability to grow our customer base.

Cost of revenue is strongly correlated to revenue and tends to fluctuate due to all of the above factors that may cause revenue fluctuations. Factors that have impacted our cost of revenue, or that we expect may impact cost of revenue in future periods, also include: changes in the mix of products delivered, customer location and regional mix, changes in the cost of our inventory, investments to support expansion of cloud and customer support offerings as well as our customer success organization, changes in product warranty, incurrence of retrofit costs, amortization of intangibles, support fees for silicon-related development work for our products, changes in trade policies, allowances for obligations to our suppliers and inventory write-downs. In addition, we periodically elect to ship by air versus by ocean in order to meet delivery commitments to our customers, which is more costly. Cost of revenue also includes fixed expenses related to our internal operations, which could increase our cost of revenue as a percentage of revenue if our revenue declines.

Our gross profit and gross margin fluctuate based on timing of factors such as changes in customer mix and changes in the mix of products demanded and sold (and any related write-downs of existing inventory or accrual for supplier commitments) and have in the past been and may be negatively impacted by increases in mix of revenue from channel sales rather than direct sales or other unfavorable customer or product mix, shipment volumes and any related volume discounts, changes in our product and services costs, pricing decreases or discounts, new product introductions or upgrades to existing products, customer rebates and incentive programs due to competitive pressure or materials shortages, supply constraints, investments to support expansion of cloud and customer support offerings, tariffs or unfavorable changes in trade policies.

Our operating expenses fluctuate based on the following factors among others: changes in headcount and personnel costs, which comprise a significant portion of our operating expenses; variable compensation due to fluctuations in shipment volumes or level of achievement against performance targets; timing of research and development expenses, including investments in innovative solutions and new customer segments, prototype builds and outsourced development resources; investments in marketing programs; asset write-offs; investments in our business and information technology infrastructure; and fluctuations in stock-based compensation expenses due to timing of equity grants or other factors affecting vesting.

Further, as a result of factors contributing to the fluctuations described above among other factors, many of which are outside our control, our quarterly operating results fluctuate from period to period. Comparing our operating results on a period-to-period basis may not be meaningful, and you should not rely on our past results as an indication of our future performance.

# **Critical Accounting Policies and Estimates**

Our financial statements are prepared in accordance with U.S. generally accepted accounting principles. These accounting principles require us to make certain estimates and judgments that can affect the reported amounts of assets and liabilities as of the date of the financial statements, as well as the reported amounts of revenue, costs and expenses during the periods presented. We base our estimates, assumptions and judgments on historical experience and on various other factors that are believed to be reasonable under the circumstances. To the extent there are material differences between these estimates and actual results, our financial statements may be affected. We evaluate our estimates, assumptions and judgments on an ongoing basis.

We believe the following critical accounting policies affect our significant judgments and estimates used in the preparation of our financial statements.

## Revenue Recognition

Revenue is recognized when a performance obligation is satisfied, which occurs when control of the promised goods or services is transferred to the customer, in an amount that reflects the consideration we expect to be entitled to in exchange for those goods or services. Revenue from sales of access and premises systems is recognized when control is transferred to the customer, which is generally when the products are shipped. Revenue from software platform licenses, which provides the customer with a right to use the software as it exists, is generally recognized upfront when product is made available to the customer. Revenue from cloud-based software subscriptions, customer support, maintenance, extended warranty subscriptions and managed services is generally recognized ratably over the contract term. Revenue from professional services and training is recognized as the services are delivered.

A performance obligation is a promise in a contract to transfer a distinct good or service to the customer and is the unit of account. A contract's transaction price is allocated to each distinct performance obligation and recognized as revenue when, or as, the performance obligation is satisfied. Our hardware products contain both software and non-software components that function together to deliver the products' essential functionality and therefore constitutes a single performance obligation as the promise to transfer the individual software and non-software components is not separately identifiable and, therefore, not distinct. Cloud-based software subscriptions can include multi-year agreements with a fixed annual fee for a minimum committed usage level. To the extent that minimum committed usage level each year varies, we have concluded that each year represents a distinct stand-ready performance obligation and the transaction price allocated to each performance obligation is recognized as revenue ratably over each annual period. Our contracts may include multiple performance obligations. For such arrangements, we allocate the contract's transaction price to each performance obligation using the relative stand-alone selling price of each distinct good or service in the contract. We generally determine stand-alone selling prices based on the prices charged to customers or our best estimate of stand-alone selling price is established considering multiple factors including, but not limited to, geographies, market conditions, competitive landscape, internal costs, gross margin objectives, characteristics of targeted customers and pricing practices. The determination of estimated stand-alone selling price is made through consultation with and formal approval by management, taking into consideration the go-to-market strategy.

# Inventory Valuation and Supplier Purchase Commitments

Inventory, which primarily consists of finished goods purchased from CMs or ODMs, is stated at the lower of cost (determined by the first-in, first-out method) and net realizable value. Inbound shipping costs and tariffs are included in the cost of inventory. In addition, from time to time, we procure component inventory primarily as a result of manufacturing discontinuation of critical components by suppliers. Furthermore, post the global pandemic-induced supply chain challenges, we have purchased, and may continue to purchase, excess components from our suppliers and consigned back to our suppliers to be consumed on future finish good builds. We regularly monitor inventory on-hand and record write-downs for excess and obsolete inventory based on our estimate of demand for our products, potential obsolescence of technology, product life cycles and whether pricing trends or forecasts indicate that the carrying value of inventory exceeds our estimated selling price. We also evaluate our supplier purchase commitments, which remain elevated due to extended lead-times created by pandemic-induced supply-chain challenges, and record a liability for excess and obsolete components based on our estimated demand of our products, potential obsolescence of technology and product life cycles. For example, during the fourth quarter of 2023, we wrote down excess and obsolete inventory and accrued a liability for components at suppliers primarily related to the wind down of our legacy product family that existed before our shift to an all-platform model. These factors are impacted by market and economic conditions, competitive dynamics, technology changes and new product introductions and require estimates that may include elements that are uncertain. Actual demand may differ from forecasted demand and may have a material effect on gross profit. If inventory is written down, a new cost basis is established that cannot be increased in future periods. The sale of previously reserved inventory has not had a material impact on our

# Recent Accounting Pronouncements Not Yet Adopted

There have been no additional accounting pronouncements or changes in accounting pronouncements that are significant or potentially significant to us.

## Results of Operations for Years Ended December 31, 2023 and 2022

# Revenue

The following table sets forth our revenue (dollars in thousands):

	Years Ended December 31,				2023 vs 2022 Change		
	2023 2022			\$	%		
Revenue	\$	1,039,593	\$	867,827	\$ 171,766	20 %	

Our revenue increased by \$171.8 million, or 20%, during 2023 compared with 2022. The increase in revenue was primarily due to strength in shipments to one of our large customers, continued shipments throughout 2023 from a new medium-sized BSP customer that we added in the third quarter of 2022 and higher revenue from our growing base of small and medium BSP customers as they expand with our platform and managed services to simplify their operations, excite their subscribers with better experiences and grow their value to the communities they serve.

Our revenue is principally derived in the United States. Revenue generated in the United States represented 91% of revenue in 2023 and 91% in 2022. Our primary focus has been, and in the near term will continue to be, the United States and Canada given our large, direct sales and marketing presence and the amount of government stimulus being invested into underserved and not-served areas of these countries. In 2022, we introduced our platform to the United Kingdom. Over time, we expect to move to additional high average-revenue-per-user markets with our platform.

No customer accounted for more than 10% of our revenue for 2023, 2022 or 2021. See Note 11 "Revenue from Contracts with Customers" to the Consolidated Financial Statements included in this Annual Report on Form 10-K for more details on concentration of revenue for the years presented.

#### Gross Profit and Gross Margin

The following table sets forth our gross profit and gross margin (dollars in thousands):

	Years Ended	Decemb	er 31,	2023 vs 2022 Change			
	 2023		2022		\$	%	
Gross profit	\$ 518,316	\$	435,428	\$	82,888	19 %	
Gross margin	49 9 %		50.2. %				

Gross profit increased by \$82.9 million to \$518.3 million during 2023 from \$435.4 million during 2022. Gross margin decreased to 49.9% during 2023 from 50.2% during 2022. The decrease in gross margin of 30 basis points, compared to the corresponding period in 2022, was mainly due to charges of \$28.7 million recorded in the fourth quarter of 2023 as we wrote down obsolete inventory and accrued a liability for components at suppliers primarily associated with our legacy product family that existed before our shift to an all-platform model. During 2023, customers moved to our platform model at a faster rate than originally anticipated, leaving us with excess finished goods and related components at suppliers. This decrease was partially offset by increased contributions from our platform and managed services, a shift in product mix and the sell through of a lower amount of excessively priced components acquired in the secondary market during the supply-chain disruption.

## **Operating Expenses**

#### Sales and Marketing Expenses

Sales and marketing expenses consist of personnel costs, employee sales commissions, marketing programs and events, software tools and travel-related expenses. The following table sets forth our sales and marketing expenses (dollars in thousands):

		Years Ende	d Decem	ber 31,	2023 vs 2022 Change			
		2023		2022		\$	%	
Sales and marketing	\$	214,564	\$	174,549	\$	40,015	23 %	
Percent of revenue		21 %		20 %				

Sales and marketing expenses increased by \$40.0 million during 2023 compared to 2022 primarily due to increases in personnel expenses of \$29.4 million mainly related to increased sales headcount and higher sales incentive compensation corresponding to our increased revenue, stock-based compensation of \$5.0 million and travel expenses of \$2.2 million.

We expect our investments in sales and marketing will increase in absolute dollars as we extend our market reach and grow our business in support of our key strategic initiatives.

## Research and Development Expenses

Research and development expenses include personnel costs, outside contractor and consulting services, depreciation on lab equipment, costs of prototypes and overhead allocations. The following table sets forth our research and development expenses (dollars in thousands):

		Years Ended	l Decemb	oer 31,	2023 vs 2022 Change			
		2023		2022	\$		%	
Research and development	\$	177,772	\$	131,994	\$	45,778	35 %	
Percent of revenue		17 %		15 %				
Percent of gross profit		34 %		30 %				

The increase in research and development expenses of \$45.8 million during 2023 compared with 2022 was mainly due to increases in personnel expenses of \$31.7 million driven by increased headcount, stock-based compensation of \$4.8 million, depreciation and amortization of \$3.2 million, prototypes and test equipment expenses of \$2.9 million and outside services of \$1.2 million.

We expect our investments in research and development to increase in absolute dollars as we seek to expand the functionality and capabilities of our platforms.

# General and Administrative Expenses

General and administrative expenses consist primarily of personnel costs related to our executive, finance, human resources, information technology and legal organizations, outside consulting services, insurance, facilities and fees for professional services. Professional services consist of outside audit, legal, accounting and tax services. The following table sets forth our general and administrative expenses (dollars in thousands):

		Years Ended	l Decemb	er 31,	2023 vs 2022 Change			
	<del></del>	2023		2022	\$		%	
General and administrative	\$	100,395	\$	76,275	\$	24,120		32 %
Percent of revenue		10 %		9 %				

The increase in general and administrative expenses of \$24.1 million in 2023 compared to 2022 was mainly due to increases in personnel expenses of \$10.8 million driven by increased headcount, stock-based compensation of \$8.0 million, litigation settlement of \$3.2 million and outside services of \$1.0 million.

We expect our general and administrative investments to increase in absolute dollars as we support the business.

# Interest and Other Income, Net

The following table sets forth our interest and other income, net (dollars in thousands):

		Years Ended December 31,				2023 vs 2022 Change			
	2023 2022				\$	%			
Interest and other income, net	\$	9,172	\$	1,432	\$	7,740	541 %		

Interest and other income, net increased by \$7.7 million in 2023 compared with 2022 mainly due to income from marketable securities corresponding to an increase in interest rates.

# Income Taxes

The following table sets forth our income taxes (dollars in thousands):

	Years Ende	d Decemb	er 31,	2023 vs 2022 Change			
	 2023		2022	\$		%	
Income taxes	\$ 5,432	\$	13,032	\$	(7,600)	(58)%	
Effective tax rate	16 %		24 %				

During 2023, our current tax expense was \$6.1 million, and our deferred tax expense was \$(0.7) million. Our effective tax rate was lower than the federal statutory rate of 21% primarily due to research and development tax credits and provision to return adjustments, partially offset by the impact of stock-based compensation and uncertain tax positions.

During 2022, our current tax expense was \$11.1 million, and our deferred tax expense was \$1.9 million. Our effective tax rate was higher than the federal statutory rate of 21% due to state taxes, the U.S. tax impact of foreign operations, and the impact of stock-based compensation, partially offset by research and development tax credits and stock option windfall deductions.

We continue to maintain a valuation allowance of \$29.9 million on certain U.S. federal and California state deferred tax assets that we believe are not more likely than not to be realized in future periods.

Our income taxes may be subject to fluctuation during the year and in future years as new information is obtained, which may affect the assumptions used to estimate the annual effective tax rate, including factors such as actual results differing from our estimates of pre-tax earnings in the various jurisdictions in which we operate, which could impact the recognition of our deferred tax assets, the recognition or de-recognition of tax benefits related to uncertain tax positions and changes in or the interpretation of tax laws in jurisdictions where we conduct business.

## 2022 Compared to 2021

For a comparison of our results of operations for the years ended December 31, 2022 and 2021, see Item 7 "Management's Discussion and Analysis of Financial Condition and Results of Operations" of our Annual Report on Form 10-K for the year ended December 31, 2022 filed with the SEC on February 21, 2023.

## **Liquidity and Capital Resources**

Historically, we have funded our operations and investing activities primarily through cash flow generated from operations, sales of our common stock and various borrowing arrangements. As of December 31, 2023, we had cash, cash equivalents and marketable securities of \$220.3 million, which consisted of deposits held at banks and major financial institutions and highly liquid marketable securities such as U.S. government securities and commercial paper. This includes \$7.7 million of cash primarily held by our foreign subsidiaries. As of December 31, 2023, our liability for taxes that would be payable because of repatriation of undistributed earnings of our foreign subsidiaries to the United States was not significant and limited to withholding taxes considering our existing net operating loss carryovers.

The following table presents the cash inflows and outflows by activity during 2023 and 2022 (in thousands):

	Years Ended	Decemb	er 31,		
	 2023				
Net cash provided by operating activities	\$ 56,251	\$	27,183		
Net cash used in investing activities	(6,245)		(24,082)		
Net cash provided by financing activities	(65,926)		25,063		

# **Operating Activities**

Our operating activities provided cash of \$56.3 million in 2023 and \$27.2 million in 2022. The increase in net cash provided by operating activities during 2023 as compared to 2022 was due primarily to an increase in our net operating results after adjustment of non-cash charges of \$2.9 million and an increase in our net cash inflow resulting from changes in operating assets and liabilities of \$26.1 million. Non-cash charges consisted of stock-based compensation of \$62.8 million, depreciation and amortization of \$16.6 million and deferred income taxes of \$0.7 million partially offset by net accretion of available-for-sale securities of \$4.2 million.

In 2023, cash outflows from changes in operating assets and liabilities primarily consisted of an increase in prepaid expenses and other assets of \$60.8 million, mainly due to advanced payments to supply chain partners, an increase in prepaid taxes and reclassification of contract assets from deferred revenue; an increase in accounts receivable of \$32.2 million due to the timing of shipments; and a decrease in accounts payable of \$6.4 million due to the timing of inventory payments. These changes were partially offset by an increase in accrued liabilities of \$32.7 million, mainly due to an increase in the reserves for inventory at suppliers, a decrease in inventory of \$16.2 million and an increase in deferred revenue of \$2.9 million.

# **Investing Activities**

In 2023, net cash used in investing activities of \$6.2 million consisted of capital expenditures of \$17.9 million, primarily consisting of purchases of test and computer equipment and software, partially offset by net maturities of marketable securities of \$11.6 million.

# Financing Activities

In 2023, net cash used in financing activities of \$65.9 million consisted of purchases of our common stock of \$86.4 million and payments related to a financing arrangement of \$11.7 million, partially offset by proceeds from the issuance of common stock related to our equity plans of \$32.1 million.

#### 2022 Compared to 2021

For a discussion of our liquidity and capital resources and our cash flow activities for the years ended December 31, 2022 and 2021, see Item 7 "Management's Discussion and Analysis of Financial Condition and Results of Operations," of our Annual Report on Form 10-K for the year ended December 31, 2022, filed with the SEC on February 21, 2023.

## Working Capital and Capital Expenditure Needs

Our material cash commitments include non-cancelable firm purchase commitments, normal recurring trade payables, compensation-related and expense accruals and operating leases. We believe that our outsourced approach to manufacturing provides us significant flexibility in both managing inventory levels and financing our inventory. Furthermore, we maintain a common stock repurchase program of which \$113.6 million was available as of December 31, 2023. Our stock repurchase program does not require us to purchase a specific number of shares and may be modified, suspended or terminated at any time.

We believe, based on our current operating plan and expected operating cash flows, that our existing cash, cash equivalents and marketable securities will be sufficient to meet our anticipated cash needs for at least the next twelve months. If we are unable to generate sufficient cash flows or obtain other sources of liquidity, we will be forced to terminate our stock repurchase program, limit our development activities, reduce our investment in growth initiatives and institute cost-cutting measures, all of which may adversely impact our business and potential growth.

# **Contractual Obligations and Commitments**

Our principal commitments as of December 31, 2023 consisted of our contractual obligations under non-cancelable outstanding purchase obligations and operating lease obligations for office space. The following table summarizes our contractual obligations as of December 31, 2023 (in thousands):

		Payments Due by Period									
	Total		Less Than 1 Year		1-3 Years		3-5 Years		More Than 5 Years		
Non-cancelable purchase commitments (1)	\$	219,989	\$	140,521	\$	69,145	\$	6,649	\$	3,674	
Operating lease obligations (2)		12,454		4,676		5,978		1,576		224	
	\$	232,443	\$	145,197	\$	75,123	\$	8,225	\$	3,898	

<sup>(1)</sup> Represents outstanding purchase commitments to be delivered by our third-party manufacturers or other vendors. See Note 5 "Commitments and Contingencies" of the Notes to Consolidated Financial Statements included in this Annual Report on Form 10-K for further discussion regarding our outstanding purchase commitments related to our third-party manufacturers.

# ITEM 7A. Quantitative and Qualitative Disclosures About Market Risk

## **Interest Rate Risk**

The primary objectives of our investment activity are to preserve principal, provide liquidity and maximize income without significantly increasing risk. By policy, we do not enter into investments for trading or speculative purposes. As of December 31, 2023, we had cash, cash equivalents and marketable securities of \$220.3 million, which was held primarily in cash, money market funds and highly liquid marketable securities such as U.S. government securities and commercial paper. Due to the nature of these money market funds and highly liquid marketable securities, we believe that we do not have any material exposure to changes in the fair value of our cash equivalents and marketable securities because of changes in interest rates.

## Foreign Currency Exchange Risk

Our primary foreign currency exposures are described below.

# Economic Exposure

The direct effect of foreign currency fluctuations on our sales and expenses has not been material because our sales and expenses are primarily denominated in U.S. dollars, or USD. However, we are indirectly exposed to changes in foreign currency exchange rates to the extent of our use of foreign CMs whom we pay in USD. Increases in the local currency rates of these vendors in relation to USD could cause an increase in the price of products that we purchase. Additionally, if the USD

<sup>&</sup>lt;sup>(2)</sup> Future minimum operating lease obligations in the table above primarily include payments for our office locations, which expire at various dates through 2029. See Note 5 "Commitments and Contingencies" of the Notes to Consolidated Financial Statements included in this Annual Report on Form 10-K for further discussion regarding our operating leases.

strengthens relative to other currencies, such strengthening could have an indirect effect on our sales to the extent it raises the cost of our products to non-U.S. customers and thereby reduces demand. A weaker USD could have the opposite effect. The precise indirect effect of currency fluctuations is difficult to measure or predict because our sales are influenced by many factors in addition to the impact of such currency fluctuations.

# Translation Exposure

Our sales contracts are primarily denominated in USD and, therefore, most of our revenue is not subject to foreign currency risk. We are directly exposed to changes in foreign exchange rates to the extent such changes affect our expenses related to our foreign assets and liabilities with our subsidiaries in China, India and the United Kingdom, whose functional currencies are Chinese Renminbi, or RMB, Indian Rupee, or INR, and British Pounds Sterling, or GBP.

Our operating expenses are incurred primarily in the United States, in China associated with our research and development operations that are maintained there, in India for our center of excellence and in the United Kingdom for our international sales and marketing activities. Our operating expenses are generally denominated in the functional currencies of our subsidiaries in which the operations are located. The percentages of our operating expenses denominated in the following currencies for the indicated fiscal years were as follows:

	Year	Years Ended December 31,		
	2023	2022	2021	
USD	90 %	91 %	92 %	
RMB	6	6	6	
INR	3	1	_	
GBP	1	2	2	
	100 %	100 %	100 %	

If USD had appreciated or depreciated by 10%, relative to RMB, GBP and INR, our operating expenses for 2023 would have decreased or increased by approximately \$4.9 million, or approximately 1%.

Foreign exchange rate fluctuations may also adversely impact our financial position as the assets and liabilities of our foreign operations are translated into USD in preparing our Consolidated Balance Sheets. The effect of foreign exchange rate fluctuations on our consolidated financial position for the year ended December 31, 2023 was a net translation gain of \$0.1 million. This gain is recognized as an adjustment to stockholders' equity through "Accumulated other comprehensive loss."

## Transaction Exposure

We have certain assets and liabilities, primarily accounts receivable and accounts payable (including inter-company transactions) that are denominated in currencies other than the relevant entity's functional currency. In certain circumstances, changes in the functional currency value of these assets and liabilities create fluctuations in our reported consolidated financial position, cash flows and results of operations. Periodically, we use derivatives to hedge against fluctuations in foreign exchange rates. We do not enter into derivatives for speculative or trading purposes. We use foreign currency forward contracts to mitigate variability in gains and losses generated from the re-measurement of certain assets denominated in foreign currencies. These foreign exchange forward contracts typically have maturities of approximately one to two months. As of December 31, 2023, we had no forward contracts outstanding. Transaction gains and losses on these foreign currency denominated assets and liabilities are recognized each period within "Other expense, net" in our Consolidated Statements of Comprehensive Income. During the year ended December 31, 2023, the net loss we recognized related to these foreign exchange assets and liabilities was approximately \$0.2 million.

# ITEM 8. Financial Statements and Supplementary Data

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#### Report of Independent Registered Public Accounting Firm

To the Stockholders and Board of Directors Calix, Inc.:

Opinions on the Consolidated Financial Statements and Internal Control Over Financial Reporting

We have audited the accompanying consolidated balance sheets of Calix, Inc. and subsidiaries (the Company) as of December 31, 2023 and 2022, the related consolidated statements of comprehensive income, stockholders' equity, and cash flows for each of the years in the three-year period ended December 31, 2023, and the related notes (collectively, the consolidated financial statements). We also have audited the Company's internal control over financial reporting as of December 31, 2023, based on criteria established in *Internal Control – Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission.

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of the Company as of December 31, 2023 and 2022, and the results of its operations and its cash flows for each of the years in the three-year period ended December 31, 2023, in conformity with U.S. generally accepted accounting principles. Also in our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2023 based on criteria established in *Internal Control – Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission.

#### Basis for Opinions

The Company's management is responsible for these consolidated financial statements, for maintaining effective internal control over financial reporting, and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying Management's Report on Internal Control Over Financial Reporting. Our responsibility is to express an opinion on the Company's consolidated financial statements and an opinion on the Company's internal control over financial reporting based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the consolidated financial statements are free of material misstatement, whether due to error or fraud, and whether effective internal control over financial reporting was maintained in all material respects.

Our audits of the consolidated financial statements included performing procedures to assess the risks of material misstatement of the consolidated financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the consolidated financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements. Our audit of internal control over financial reporting included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audits also included performing such other procedures as we considered necessary in the circumstances. We believe that our audits provide a reasonable basis for our opinions.

#### Definition and Limitations of Internal Control Over Financial Reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

#### Critical Audit Matter

The critical audit matter communicated below is a matter arising from the current period audit of the consolidated financial statements that was communicated to be communicated to the audit committee and that: (1) relates to accounts or disclosures that are material to the consolidated financial statements and (2) involved our especially challenging, subjective, or complex judgments. The communication of a critical audit matter does not alter in any way our opinion on the consolidated financial statements, taken as a whole, and we are not, by communicating the critical audit matter below, providing a separate opinion on the critical audit matter or on the accounts or disclosures to which it relates.

#### Table of Contents

Evaluation of net realizable value of raw material and finished goods inventory and excess and obsolete component liabilities

As discussed in Notes 1, 4 and 5 to the consolidated financial statements, the Company has raw material and finished goods inventories with a carrying value of \$133.0 million and excess and obsolete component liabilities of \$32.2 million as of December 31, 2023. The Company adjusts the inventory carrying value for excess or obsolete inventory based on assumptions about future demand for products, potential obsolescence of technology, product life cycle, and whether pricing trends or forecasts indicate that the carrying value of inventory exceeds the estimated selling price. These factors are impacted by market and economic conditions, technology changes and new product introductions and require significant estimates that may include elements that are uncertain. The Company also records a liability and a charge to cost of revenue for estimated losses on components the Company is obligated to purchase from its manufacturers when the components have been rendered excess and obsolete due to manufacturing and engineering change orders resulting from design changes, manufacturing discontinuation of products by its suppliers, or in cases where the Company has committed component levels that greatly exceed projected demand. During the fourth quarter of 2023, the Company took charges of \$28.7 million to write down excess and obsolete inventory and accrue a liability for components at suppliers primarily associated with the Company's legacy product family.

We identified the evaluation of net realizable value of inventory and excess and obsolete component liabilities as a critical audit matter. Evaluation of the Company's forecasted demand, including the Company's determination of the effect of market and economic conditions, technology and design changes, new product introductions, and discontinuation of products both by the Company and its suppliers required significant auditor judgment.

The following are the primary procedures we performed to address this critical audit matter. We evaluated the design and tested the operating effectiveness of certain internal controls related to the Company's inventory process. This included controls over the reviews of the estimates of the net realizable value of excess or obsolete raw material and finished goods inventory and liabilities for losses on components the Company is obligated to purchase from its manufacturers. For a selection of inventory items owned by the Company, we (1) reperformed the analysis provided by the Company to assess the accuracy of the net realizable value of inventory by comparing historical sales activity, customer order backlog, or demand forecasts to the inventory on hand quantities, and (2) performed inquiries of Company's personnel and inspected documents regarding product end of life announcements, technology and design changes, and new product introductions. For a selection of components subject to the Company's purchase commitments, we (1) evaluated the reasonableness of management's assumptions used to estimate the excess and obsolete component liabilities by considering historical sales activity, customer order backlog, or demand forecasts of the related finished products and (2) performed inquiries of Company's personnel and inspected documents regarding product end of life announcements, technology and design changes, new product introductions, and historical reimbursements to suppliers for excess and obsolete components.

/s/ KPMG LLP

We have served as the Company's auditor since 2016. Santa Clara, California February 22, 2024

# CALIX, INC.

# CONSOLIDATED BALANCE SHEETS (In thousands, except par value)

	December 31,			,
		2023		2022
ASSETS				
Current assets:				
Cash and cash equivalents	\$	63,409	\$	79,073
Marketable securities		156,937		162,642
Accounts receivable, net		126,027		93,804
Inventory		132,985		149,160
Prepaid expenses and other current assets		118,598		62,691
Total current assets		597,956		547,370
Property and equipment, net		29,461		25,834
Right-of-use operating leases		9,262		9,283
Deferred tax assets		167,691		167,031
Goodwill		116,175		116,175
Other assets		21,320		19,142
	\$	941,865	\$	884,835
LIABILITIES AND STOCKHOLDERS' EQUITY				
Current liabilities:				
Accounts payable	\$	34,746	\$	41,407
Accrued liabilities		116,227		90,474
Deferred revenue		36,669		33,541
Total current liabilities		187,642		165,422
Long-term portion of deferred revenue		24,864		25,072
Operating leases		7,421		8,442
Other long-term liabilities		2,956		6,332
Total liabilities		222,883		205,268
Commitments and contingencies (See Note 5)				
Stockholders' equity:				
Preferred stock, \$0.025 par value; 5,000 shares authorized; no shares issued and outstanding as of December 31, 2023 and 2022		_		_
Common stock, \$0.025 par value; 100,000 shares authorized; 65,052 shares issued and outstanding as of December 31, 2023, and 65,735 shares issued and outstanding as of December 31, 2022		1,627		1,644
Additional paid-in capital		1,078,393		1,070,100
Accumulated other comprehensive loss		(659)		(2,473)
Accumulated deficit		(360,379)		(389,704)
Total stockholders' equity		718,982		679,567
	\$	941,865	\$	884,835

See accompanying notes to consolidated financial statements.

#### CALIX, INC.

# CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME (In thousands, except per share data)

Years Ended December 31, 2023 2022 2021 Revenue \$ 1,039,593 \$ 867,827 \$ 679,394 Cost of revenue 521,277 432,399 322,807 Gross profit 518,316 435,428 356,587 Operating expenses: Sales and marketing 214,564 174,549 125,909 Research and development 177,772 131,994 101,747 General and administrative 100,395 55,779 76,275 Restructuring benefit (786) 492,731 Total operating expenses 382,818 282,649 Operating income 25,585 52,610 73,938 Interest and other income (expense), net: 9,704 2,009 Interest income (expense), net (402)(882)Other expense, net (532)(577)Total interest and other income (expense), net 9,172 1,432 (1,284)34,757 54,042 Income before income taxes 72,654 5,432 13,032 (165,724)Income taxes 29,325 41,010 238,378 Net income Net income per common share: \$ 0.44 0.63 3.77 Basic 0.42 \$ 0.60 3.51 Diluted Weighted-average number of shares used to compute net income per common share: 65,980 65,058 63,277 Basic 69,320 68,911 67,856 Diluted 238,378 Net income 29,325 41,010 Other comprehensive income (loss), net of tax: Unrealized gain (loss) on available-for-sale marketable securities, net 1,701 (1,521)(179)Foreign currency translation adjustments, net 113 (632)50 Total other comprehensive income (loss), net of tax 1,814 (2,153)(129)31,139 38,857 238,249 Comprehensive income

See accompanying notes to consolidated financial statements.

# CALIX, INC. CONSOLIDATED STATEMENTS OF STOCKHOLDERS' EQUITY (In thousands)

			Additional	Accumulated Other		Total
	Co	ommon Stock	Paid-in	Comprehensive	Accumulated	Stockholders'
	Shares	Amount	Capital	Loss	Deficit	Equity
Balance as of December 31, 2020	62,122	\$ 1,553	\$ 948,055	\$ (191)	\$ (669,092)	\$ 280,325
Stock-based compensation	_	_	24,230	_	_	24,230
Issuance of common stock under equity incentive plans, net of forfeitures	2,152	54	25,570	_	_	25,624
Net income	_	_	_	_	238,378	238,378
Other comprehensive loss	_	_	_	(129)	_	(129)
Balance as of December 31, 2021	64,274	1,607	997,855	(320)	(430,714)	568,428
Stock-based compensation	_	_	44,826	_	_	44,826
Issuance of common stock under equity incentive plans, net of forfeitures	1,461	37	27,419	_	_	27,456
Net income	_	_	_	_	41,010	41,010
Other comprehensive loss	_	_	_	(2,153)	_	(2,153)
Balance as of December 31, 2022	65,735	1,644	1,070,100	(2,473)	(389,704)	679,567
Stock-based compensation	_	_	62,771	_	_	62,771
Issuance of common stock under equity incentive plans, net of forfeitures	1,527	38	32,111	_	_	32,149
Repurchase of common stock including excise tax	(2,210)	(55)	(86,589)	_	_	(86,644)
Net income	_	_	_	_	29,325	29,325
Other comprehensive income	_	_	_	1,814	_	1,814
Balance as of December 31, 2023	65,052	1,627	1,078,393	(659)	(360,379)	718,982

See accompanying notes to consolidated financial statements.

Non-cash investing activities:

Changes in accounts payable and accrued liabilities related to purchases of property and equipment

# CALIX, INC. CONSOLIDATED STATEMENTS OF CASH FLOWS (In thousands)

	Years Ended December 31,					
		2023		2022		2021
Operating activities:						
Net income	\$	29,325	\$	41,010	\$	238,378
Adjustments to reconcile net income to net cash provided by operating activities:						
Stock-based compensation		62,771		44,826		24,230
Depreciation and amortization		16,631		14,315		15,012
Deferred income taxes		(660)		1,932		(168,426)
Net accretion of available-for-sale securities		(4,199)		(1,146)		_
Changes in operating assets and liabilities:						
Accounts receivable, net		(32,222)		(8,585)		(15,800)
Inventory		16,175		(60,280)		(36,612)
Prepaid expenses and other assets		(60,795)		(38,359)		(27,074)
Accounts payable		(6,369)		12,111		16,025
Accrued liabilities		37,070		20,919		3,273
Deferred revenue		2,921		9,118		10,400
Other long-term liabilities		(4,397)		(8,678)		(2,613)
Net cash provided by operating activities		56,251		27,183		56,793
Investing activities:						
Purchases of property and equipment		(17,855)		(14,067)		(10,463)
Purchases of marketable securities		(216,193)		(191,403)		(298,092)
Maturities of marketable securities		227,803		181,388		197,894
Net cash used in investing activities		(6,245)		(24,082)		(110,661)
Financing activities:						
Proceeds from common stock issuances related to employee benefit plans		32,149		27,456		25,624
Repurchases of common stock		(86,397)		_		_
Payments related to financing arrangements		(11,678)		(2,393)		(1,241)
Net cash provided by (used in) financing activities		(65,926)		25,063		24,383
Effect of exchange rate changes on cash and cash equivalents		256		(424)		11
Net increase (decrease) in cash and cash equivalents		(15,664)		27,740		(29,474)
Cash and cash equivalents at beginning of year		79,073		51,333		80,807
Cash and cash equivalents at end of year	\$	63,409	\$	79,073	\$	51,333
Supplemental disclosures of cash flow information:						
Interest paid	\$	253	\$	577	\$	631
Income taxes paid	\$	11,873		9,607		5,197

See accompanying notes to consolidated financial statements.

(180) \$

\$

586 \$

194

#### CALIX, INC.

#### NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

# 1. Description of Business and Significant Accounting Policies

#### Company

Calix, Inc. (together with its subsidiaries, "Calix" or the "Company") was incorporated in August 1999 and is a Delaware corporation. The Company is the leading global provider of a platform (cloud, software and systems) and managed services that focus on the subscriber-facing network, the portion of the network that governs available bandwidth and determines the range and quality of services that can be offered to subscribers. This platform and managed services enable broadband service providers ("BSPs") of all sizes to innovate and transform their businesses. The Company's BSP customers are empowered to utilize real-time data and insights from the Calix platform to simplify their businesses and deliver experiences that excite their subscribers. These insights enable BSPs to grow their businesses through increased subscriber acquisition, loyalty and revenue, thereby increasing the value of their businesses and contributions to their communities.

#### Basis of Presentation and Accounting Guidance

The accompanying consolidated financial statements have been prepared in accordance with the requirements of the U.S. Securities and Exchange Commission ("SEC") and U.S. generally accepted accounting principles ("GAAP"). All significant intercompany balances and transactions have been eliminated in consolidation. Any reference in these notes to applicable accounting guidance is meant to refer to the authoritative U.S. GAAP as found in the Financial Accounting Standards Board ("FASB") Accounting Standards Codification ("ASC").

#### Use of Estimates

The preparation of financial statements is in conformity with U.S. GAAP, which requires management to make estimates and assumptions that affect the amounts reported in the consolidated financial statements and accompanying notes. For the Company, these estimates include, but are not limited to: allowances for doubtful accounts and sales returns, excess and obsolete inventory, allowances for obligations to its contract manufacturers, valuation of stock-based compensation, useful lives assigned to long-lived assets, standard and extended warranty costs, realizability of deferred tax assets and uncertain tax positions and contingencies. Actual results could differ from those estimates, and such differences could be material to the Company's financial position and results of operations.

#### Revenue Recognition

Revenue is recognized when a performance obligation is satisfied, which occurs when control of the promised goods or services is transferred to the customer, in an amount that reflects the consideration the Company expects to be entitled to in exchange for those goods or services. Revenue from sales of access and premises systems is recognized when control is transferred to the customer, which is generally when the products are shipped. Revenue from software platform licenses, which provides the customer with a right to use the software as it exists, is generally recognized upfront when made available to the customer. Revenue from cloud-based software subscriptions, customer support, maintenance, extended warranty subscriptions and managed services is generally recognized ratably over the contract term. Revenue from professional services and training is recognized as the services are delivered.

A performance obligation is a promise in a contract to transfer a distinct good or service to the customer and is the unit of account. A contract's transaction price is allocated to each distinct performance obligation and recognized as revenue when, or as, the performance obligation is satisfied. The Company's hardware products contain both software and non-software components that function together to deliver the products' essential functionality and therefore constitutes a single performance obligation as the promise to transfer the individual software and non-software components is not separately identifiable and, therefore, not distinct. Cloud-based software subscriptions can include multi-year agreements with a fixed annual fee for a minimum committed usage level. To the extent that minimum committed usage level each year varies, the Company has concluded that each year represents a distinct stand-ready performance obligation and the transaction price allocated to each performance obligation is recognized as revenue ratably over each annual period. The Company's contracts may include multiple performance obligations. For such arrangements, the Company allocates the contract's transaction price to each performance obligation using the relative stand-alone selling price of each distinct good or service in the contract. The Company generally determines stand-alone selling prices based on the prices charged to customers or its best estimate of stand-alone selling price. The Company's estimate of stand-alone selling price is established considering multiple factors including, but not limited to, geographies, market conditions, competitive landscape, internal costs, gross margin objectives, characteristics of targeted customers and pricing practices. The determination of estimated stand-alone selling price is made through consultation with and formal approval by management, taking into consideration the go-to-market strategy.

#### Cost of Revenue

Cost of revenue consists primarily of finished goods inventory purchased from the Company's contract manufacturers, payroll and related expenses associated with managing the relationships with contract manufacturers, depreciation of manufacturing test equipment, warranty and retrofit costs, excess and obsolete inventory costs, allowances for obligations to its contract manufacturers, shipping charges and amortization of certain intangible assets. It also includes contractor and other costs of services incurred directly related to the delivery of services to customers.

#### Warranty and Retrofit

The Company offers limited warranties for its hardware products for a period of one, three or five years, depending on the product type. The Company recognizes estimated costs related to warranty activities as a component of cost of revenue upon product shipment or upon identification of a specific product failure. Under certain circumstances, the Company also provides fixes on specifically identified performance failures for products that are outside of the standard warranty period and recognizes estimated costs related to retrofit activities as a component of cost of revenue upon identification of such product failures. The Company recognizes estimated warranty and retrofit costs when it is probable that a liability has been incurred and the amount of loss is reasonably estimable. The estimates are based upon historical and projected product failure and claim rates, historical costs incurred in correcting product failures and information available related to any specifically identified product failures. Judgment is required in estimating costs associated with warranty and retrofit activities, and the Company's estimates are limited to information available to the Company at the time of such estimates. In some cases, such as when a specific product failure is first identified or a new product is introduced, the Company may initially have limited information and limited historical failure and claim rates upon which to base its estimates, and such estimates may require revision in future periods. The recorded amount is adjusted from time to time for specifically identified warranty and retrofit exposure. Actual warranty and retrofit expenses are charged against the Company's estimated warranty and retrofit liability when incurred. Factors that affect the Company's warranty and retrofit liability include the number of active installed units and historical and anticipated rates of warranty and retrofit claims and cost per claim.

#### Stock-Based Compensation

Stock-based compensation expense associated with stock options and purchase rights under the Amended and Restated Employee Stock Purchase Plan (the "ESPP") and the Amended and Restated 2017 Nonqualified Employee Stock Purchase Plan (the "NQ ESPP") is measured at the grant date based on the fair value of the award and is recognized, net of forfeitures, as expense over the remaining requisite service period (generally the vesting period) on a straight-line basis.

The fair value of stock option and employee stock purchase right under the ESPP is estimated at the grant date using the Black-Scholes option valuation model. The fair value of the employee stock purchase right under the NQ ESPP is based on closing market price of the Company's common stock on the date of grant.

Stock-based compensation expense associated with performance stock options ("PSOs") with graded vesting features and which contain both a performance and a service condition is measured based on fair value of stock options estimated at the grant date using the Black-Scholes option valuation model, and is recognized, net of forfeitures, as expense over the requisite service period using the graded vesting attribution method.

Compensation expense is only recognized if the Company has determined that it is probable that the performance condition will be met. The Company reassesses the probability of vesting at each reporting period and adjusts compensation expense based on its probability assessment.

# Loss Contingencies

From time to time, the Company is involved in legal proceedings arising from the normal course of business activities. The Company evaluates the likelihood of an unfavorable outcome of legal proceedings to which it is a party and accrues a loss contingency when the loss is probable and reasonably estimable. Assessing legal contingencies involves significant judgment and estimates, and the outcome of litigation is inherently uncertain and subject to numerous factors outside the Company's control. Significant judgment is required when the Company assesses the likelihood of any adverse judgments or outcomes, including the potential range of possible losses, and whether losses are probable and reasonably estimable.

Because of uncertainties related to these matters, the Company bases its estimates of whether a loss contingency is probable or reasonably possible, as well as the reasonable range of possible losses associated with each loss contingency, only on the information available at the time. As additional information becomes available, and at least quarterly, the Company reassesses the potential liability on each significant matter and may revise its estimates. These revisions could have a material impact on the Company's business, operating results or financial condition. The actual outcome of these legal proceedings may materially differ from the Company's estimates of potential liability, which could have a material adverse effect on the Company's business, operating results or financial condition.

#### Credit Risk and Inventory Supplier Concentrations

Financial instruments that potentially subject the Company to significant concentrations of credit risk consist primarily of cash, cash equivalents, marketable securities and accounts receivable. Cash equivalents consist of money market funds and marketable securities with a maturity at the date of purchase of ninety days or less, which are invested through financial institutions in the United States. Deposits in and investments held by these financial institutions may, at times, exceed federally insured limits. The Company has not experienced any losses in such accounts. The Company also has approximately \$7.7 million of cash held by its foreign subsidiaries in India, China and the United Kingdom. Management believes that the financial institutions that hold the Company's cash and cash equivalents are financially sound and, accordingly, minimal credit risk exists with respect to these cash and cash equivalents.

The Company depends primarily on a small number of outside contract manufacturers ("CMs") and original design manufacturers ("ODMs") for the bulk of its finished goods inventory. The Company generally purchases its products through purchase orders with its suppliers. While the Company seeks to maintain a sufficient supply of its products, the Company's business and results of operations could be adversely affected by a stoppage or delay in receiving such products, the receipt of defective parts, an increase in price of such products or the Company's inability to obtain lower prices from its CMs, ODMs and other suppliers in response to competitive pressures.

#### Fair Value of Financial Instruments

The carrying amounts of cash and cash equivalents, trade receivables, accounts payable and other accrued liabilities approximate their fair value due to their relatively short-term nature. Marketable securities are valued using quoted market prices in active markets to determine fair value.

#### Cash, Cash Equivalents and Marketable Securities

Cash equivalents and marketable securities are stated at amounts that approximate fair value based on quoted market prices.

The Company has invested its excess cash primarily in money market funds and highly liquid marketable securities such as U.S. treasury securities, corporate debt instruments, commercial paper and U.S. government securities. The Company considers all investments with maturities of three months or less when purchased to be cash equivalents. Marketable securities represent highly liquid U.S. treasury securities, corporate debt instruments, commercial paper and U.S. government securities with maturities greater than 90 days at date of purchase. Marketable securities with maturities greater than one year are classified as current because management considers all marketable securities to be available for current operations.

The Company's investments have been classified and accounted for as available-for-sale. Such investments are recorded at fair value and unrealized holding gains and losses are reported as a separate component of comprehensive loss in the stockholders' equity until realized. Realized gains and losses on sales of marketable securities, if any, are determined on the specific identification method and are reclassified from accumulated other comprehensive loss to results of operations as "Other expense, net." Realized gains and losses were not significant for the years ended December 31, 2023 and 2022, respectively.

For the Company's available-for-sale debt securities in an unrealized loss position, the Company determines whether a credit loss exists. In this assessment, among other factors, the Company considers the extent to which the fair value is less than the amortized cost, any changes to the rating of the security by a rating agency, and adverse conditions specifically related to the security. If factors indicate a credit loss exists, an allowance for credit loss will be recorded to "Other expense, net," limited by the amount that the fair value is less than the amortized cost basis. The amount of fair value change relating to all other factors will be recognized in other comprehensive loss.

See Note 2 "Cash, Cash Equivalents and Marketable Securities."

#### Allowance for Doubtful Accounts

The Company maintains an allowance for doubtful accounts for expected credit losses at contract inception resulting from the inability of its customers to make required payments. The Company records a specific allowance and revises the expected loss based on an analysis of individual past-due balances. Additionally, based on historical write-offs and the Company's collection experience, the Company records an additional allowance based on a percentage of outstanding receivables. The Company performs credit evaluations of its customers' financial condition. These evaluations require judgment and are based on a variety of factors including, but not limited to, current economic trends, payment history and a financial review of the customer. Actual collection losses may differ from management's estimates, and such differences could be material to the Company's financial position and results of operations.

#### Inventory Valuation and Supplier Purchase Commitments

Inventory, which primarily consists of finished goods purchased from CMs or ODMs, is stated at the lower of cost (determined by the first-in, first-out method) or market value. Shipments from suppliers before the Company receives them are recorded as

in-transit inventory when title and the significant risks and rewards of ownership have passed to the Company. Inbound shipping costs and U.S. tariffs are included in cost of inventory. In addition, from time to time, the Company procures component inventory primarily as a result of manufacturing discontinuation of critical components by suppliers. The Company regularly monitors inventory quantities on hand and records write-downs for excess and obsolete inventories based on the Company's estimate of demand for its products, potential obsolescence of technology, product life cycles and whether pricing trends or forecasts indicate that the carrying value of inventory exceeds its estimated selling price. The Company also evaluates its supplier purchase commitments, which remain elevated due to the extended lead-times during the global pandemic-induced supply chain challenges, and records a liability for excess and obsolete components based on its estimated demand of our products, potential obsolescence of technology and product life cycles. These factors are impacted by market and economic conditions, competitive dynamics, technology changes and new product introductions and require significant estimates that may include elements that are uncertain. Actual demand may differ from forecasted demand and may have a material effect on gross profit. If inventory is written down, a new cost basis is established that cannot be increased in future periods. For example, during the fourth quarter of 2023, the Company took charges of \$28.7 million to write down excess and obsolete inventory and accrue a liability for components at suppliers primarily associated with the Company's legacy product family that existed before its shift to an all-platform model. During 2023, customers moved to the Company's platform model at a faster rate than originally anticipated, leaving the Company with excess finished goods and related components at suppliers.

#### **Contract Costs**

The Company capitalizes certain sales commissions related primarily to multi-year cloud-based software subscriptions and extended warranty support contracts.

Capitalized commissions are amortized as sales and marketing expenses over the period that the related revenue is recognized, which can be up to five years for extended warranty. The Company classifies the unamortized portion of deferred commissions as current or noncurrent based on the timing of when the Company expects to recognize the expense. The current and noncurrent portions of deferred commissions are included in "Prepaid expenses and other current assets" and "Other assets," respectively, in the Company's Consolidated Balance Sheets.

#### Property and Equipment

Property and equipment are stated at cost, less accumulated depreciation, and are depreciated using the straight-line method over the estimated useful life of each asset. Generally, computer equipment is depreciated over two years; purchased software is depreciated over three to five years; test equipment is depreciated over three years; furniture and fixtures are depreciated over seven years; and leasehold improvements are depreciated over the shorter of the respective lease term or the estimated useful life of the asset. Maintenance and repairs are charged to expense as incurred.

#### Goodwill

Goodwill was recorded as a result of the Company's acquisitions of Occam Networks, Inc. in February 2011 and Optical Solutions, Inc. in February 2006. The Company records goodwill when consideration paid in a business acquisition exceeds the fair value of the net tangible assets and the identified intangible assets acquired. Goodwill is not amortized but instead is subject to an annual impairment test or more frequently if events or changes in circumstances indicate that it may be impaired. The Company evaluates goodwill on an annual basis as of the end of the second quarter of each fiscal year. Management has determined that it operates as a single reporting unit and, therefore, evaluates goodwill impairment at the enterprise level.

At the end of the second quarter of 2023, the Company completed its annual goodwill impairment test. Based on its assessment of certain qualitative factors such as market capitalization, management concluded that the fair value of the Company was more likely than not greater than its carrying amount as of July 2, 2023. As such, it was not necessary to perform the two-step quantitative goodwill impairment test at the time.

There have been no significant events or changes in circumstances subsequent to the 2023 annual impairment test that would more likely than not indicate that the carrying value of goodwill may have been impaired as of December 31, 2023. There were no impairment losses for goodwill for the years ended December 31, 2023, 2022 or 2021.

# Deferred Revenue

Deferred revenue results from transactions where the Company billed the customer for products or services and when cash payments are received or due prior to transferring control of the promised goods or services to the customer.

Payment terms to customers typically range from net 30 to net 90 days and vary by the size and location of customer and the products or services offered. The period between the transfer of control of the promised good or service to a customer and when payment is due is not significant.

#### Income Taxes

The Company evaluates its tax positions and estimates its current tax exposure along with assessing temporary differences that result from different book to tax treatment of items not currently deductible for tax purposes. These differences result in deferred tax assets and liabilities on the Company's Consolidated Balance Sheets, which are estimated based upon the difference between the financial statement and tax bases of assets and liabilities using the enacted tax rates that will be in effect when these differences reverse. In general, deferred tax assets represent future tax benefits to be received when certain expenses previously recognized in the Company's Consolidated Statements of Comprehensive Income become deductible expenses under applicable income tax laws or loss or credit carryforwards are utilized. Accordingly, realization of the Company's deferred tax assets is dependent on future taxable income against which these deductions, losses and credits can be utilized.

The Company must assess the likelihood that deferred tax assets will be recovered from future taxable Income, and if the Company determines that recovery is not more likely than not, the Company must establish a valuation allowance. Management judgment is required in determining its provision for income taxes, deferred tax assets and liabilities and any valuation allowance recorded against its net deferred tax assets.

# Newly Adopted Accounting Standards

The Company did not adopt any new accounting standards in 2023 that were significant to the Company.

#### Recent Accounting Pronouncements Not Yet Adopted

There have been no accounting pronouncements or changes in accounting pronouncements that are significant or potentially significant to the Company.

#### 2. Cash, Cash Equivalents and Marketable Securities

Cash, cash equivalents and marketable securities consisted of the following (in thousands):

	Dece	mber 31,	
	2023		2022
Cash and cash equivalents:			
Cash	\$ 18,040	\$	39,189
Commercial paper	32,837		33,199
U.S. government securities	9,969		5,990
Money market funds	2,563		555
Corporate debt securities	_		140
Total cash and cash equivalents	63,409		79,073
Marketable securities:			
U.S. government securities	92,277		106,750
U.S. government agency securities	43,521		23,632
Commercial paper	14,139		28,992
Corporate debt securities	7,000		3,168
Municipal securities	_		100
Total marketable securities	156,937		162,642
	\$ 220,346	\$	241,715

The carrying amounts of the Company's money market funds approximate their fair values due to their nature, duration and short maturities. As of December 31, 2023, all marketable securities were due in three years or less.

The amortized cost and fair value of marketable securities as of December 31, 2023 were as follows (in thousands):

	Gross Unrealized Gains (Losses)					Fair Value
U.S. government securities	\$	102,167	\$	80	\$	102,247
Commercial paper		47,003		(28)		46,975
U.S. government agency securities		43,573		(52)		43,521
Corporate debt securities		6,999		1		7,000
	\$	199,742	\$	1	\$	199,743

The amortized cost and fair value of marketable securities as of December 31, 2022 were as follows (in thousands):

	Am	ortized Cost	<b>Gross Unrealized Losses</b>			Fair Value
U.S. government securities	\$	114,120	\$	(1,380)	\$	112,740
Commercial paper		62,262		(71)		62,191
U.S. government agency securities		23,876		(244)		23,632
Corporate debt securities		3,312		(4)		3,308
Municipal securities		101		(1)		100
	\$	203,671	\$	(1,700)	\$	201,971

#### 3. Fair Value Measurements

The Company measures its cash equivalents and marketable securities at fair value on a recurring basis. Fair value is an exit price, representing the amount that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants. As such, fair value is a market-based measurement that should be determined based on assumptions that market participants would use in pricing an asset or liability. The Company utilizes the following three-tier value hierarchy which prioritizes the inputs used in measuring fair value:

- Level 1 Observable inputs that reflect quoted prices (unadjusted) for identical assets or liabilities in active markets.
- Level 2 Observable inputs other than quoted prices included in Level 1 for similar instruments in active markets, quoted prices for identical or similar instruments in markets that are not active, and model-driven valuations in which all significant inputs and significant value drivers are observable in active markets.
- Level 3 Unobservable inputs to the valuation derived from fair valuation techniques in which one or more significant inputs or significant value drivers are unobservable. The fair value hierarchy also requires the Company to maximize the use of observable inputs, when available, and to minimize the use of unobservable inputs when determining inputs and determining fair value.

The following tables sets forth the Company's financial assets measured at fair value on a recurring basis based on the three-tier fair value hierarchy (in thousands):

As of December 31, 2023	Level 1	Level 2	Total
Money market funds	\$ 2,563	\$ 	\$ 2,563
U.S. government securities	102,246	_	102,246
Commercial paper	_	46,976	46,976
U.S. government agency securities	_	43,521	43,521
Corporate debt securities	_	7,000	7,000
	\$ 104,809	\$ 97,497	\$ 202,306

As of December 31, 2022	Level 1	Level 2	Total
Money market funds	\$ 555	\$ 	\$ 555
U.S. government securities	112,740	_	112,740
Commercial paper	_	62,191	62,191
U.S. government agency securities	_	23,632	23,632
Corporate debt securities	_	3,308	3,308
Municipal securities	_	100	100
	\$ 113,295	\$ 89,231	\$ 202,526

# 4. Balance Sheet Details

Accounts receivable, net consisted of the following (in thousands):

	December 31,				
	2023 20				
Accounts receivable	\$ 126,331	\$	94,201		
Allowance for doubtful accounts	(304)		(397)		
	\$ 126,027	\$	93,804		

The table below summarizes the changes in allowance for doubtful accounts and product return liability for the periods indicated (in thousands):

	ance at ing of Year	to Re	tions Charged Expenses or venue Net of Recoveries	W	rite Offs and Returns	Balance at End of Year
Year Ended December 31, 2023:						
Allowance for doubtful accounts	\$ 397	\$	43	\$	(136)	\$ 304
Product return liability	2,961		4,761		(4,825)	2,897
Year Ended December 31, 2022:						
Allowance for doubtful accounts	\$ 725	\$	(276)	\$	(52)	\$ 397
Product return liability	1,836		5,622		(4,497)	2,961
Year Ended December 31, 2021:						
Allowance for doubtful accounts	\$ 1,405	\$	(201)	\$	(479)	\$ 725
Product return liability	1,888		3,681		(3,733)	1,836

Inventory consisted of the following (in thousands):

	December 31,				
	2023 2022				
Raw materials	\$ 22,119	\$	640		
Finished goods	110,866		148,520		
	\$ 132,985	\$	149,160		

Prepaid expenses and other current assets consisted of the following (in thousands):

	December 31,				
	2023				
Supplier deposits	\$ 78,131	\$	39,064		
Prepaid expenses and other current assets	40,467		23,627		
	\$ 118,598	\$	62,691		

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Property and equipment, net consisted of the following (in thousands):

	December 31,		
	2023		2022
Test equipment	\$ 50,853	\$	44,106
Computer equipment	13,615		13,396
Software	12,972		10,389
Leasehold improvements	2,122		1,730
Furniture and fixtures	1,283		1,153
	 80,845		70,774
Accumulated depreciation and amortization	(51,384)		(44,940)
	\$ 29,461	\$	25,834

Depreciation and amortization expenses were \$16.6 million, \$14.3 million and \$15.0 million for the years ended December 31, 2023, 2022 and 2021, respectively.

Accrued liabilities consisted of the following (in thousands):

	D	ecember 31,
	2023	2022
Compensation and related benefits	\$ 36,7	<del>\$ 27,813</del>
Component inventory held by suppliers	32,1	10,280
Professional and consulting fees	7,7	717 7,307
Customer advances or rebates	5,9	5,653
Current portion of warranty and retrofit	5,6	6,377
Taxes payable	4,3	4,581
Operating leases	4,1	3,949
Litigation settlement	3,2	±50 —
Business events	2,9	3,167
Product returns	2,8	397 2,961
Freight	1,5	3,649
Current portion of revenue-share payments		<b>—</b> 7,210
Other	8,9	7,527
	\$ 116,2	\$ 90,474

Changes in the Company's accrued warranty and retrofit liability were as follows (in thousands):

	Years Ended December 31,				
	 2023		2022		2021
Balance at beginning of year	\$ 8,386	\$	9,594	\$	9,208
Provision for warranty and retrofit charged to cost of revenue	3,282		1,315		3,370
Utilization of reserve	(3,639)		(2,523)		(2,984)
Balance at end of year	\$ 8,029	\$	8,386	\$	9,594

#### 5. Commitments and Contingencies

#### Lease Commitments

The Company leases office space under non-cancelable operating leases. Certain of the Company's operating leases contain renewal options and rent acceleration clauses. Future minimum payments under the non-cancelable operating leases consisted of the following as of December 31, 2023 (in thousands):

Year Ending December 31,	nimum Lease ments
2024	\$ 4,676
2025	4,479
2026	1,499
2027	1,061
2028 and thereafter	739
Total future minimum lease payments	12,454
Less imputed interest	(891)
	\$ 11,563

As of December 31, 2023, the operating lease liability consisted of the following (in thousands):

Accrued liabilities - current portion of operating leases	\$ 4,142
Operating leases	7,421
	\$ 11,563

The Company leases its headquarters office space in San Jose, California under a lease agreement that expires in December 2025. The future minimum lease payments under the lease are \$5.0 million as of December 31, 2023 and are included in the tables above.

The above tables also include future minimum lease payments for the Company's office facilities in Petaluma, California; Plymouth, Minnesota; Richardson, Texas; Bangalore, India; Nanjing, China; and West Jordan, Utah, which expire at various dates through 2029.

In November 2021, the Company entered into a sublease for a portion of the San Jose headquarters office space that was previously abandoned. The sublease commenced in August 2022 for a term of 39 months. The Company received \$0.8 million and \$0.3 million in sublease income in 2023 and 2022, respectively. Future minimum payments consisted of the following as of December 31, 2023 (in thousands):

Year Ending December 31,	Future Minimum Sublease Payment	
2024		773
2025		661
Total future minimum sublease payments	\$ 1,	,434

The weighted average discount rate for the Company's operating leases as of December 31, 2023 was 5.3%. The weighted average remaining lease term as of December 31, 2023 was 3.1 years.

For the years ended December 31, 2023, 2022 and 2021, total rent expense of the Company was \$4.8 million, \$4.6 million and \$4.1 million, respectively. Cash paid within operating cash flows for operating leases was \$4.5 million, \$4.5 million and \$3.9 million for years ended December 31, 2023, 2022 and 2021, respectively.

# **Purchase Commitments**

The Company's CMs and ODMs place orders for component inventory based upon the Company's build forecasts and pursuant to stated component lead times to ensure adequate component supply. The components are used by the CMs and ODMs to build the products included in the build forecasts. The Company generally does not take ownership of the components held by CMs and ODMs. The Company places purchase orders with its CMs and ODMs in order to fulfill its monthly finished product inventory requirements. The Company incurs a liability when the CMs and ODMs convert the component inventory to a finished product and takes ownership of the finished goods inventory.

The Company has from time to time, and subject to certain conditions, reimbursed certain suppliers for component inventory purchases when this inventory has been rendered excess or obsolete, for example due to manufacturing and engineering change

orders resulting from design changes, manufacturing discontinuation of products by its suppliers, or in cases where the Company has committed inventory levels that greatly exceed projected demand. In the event of termination of services with a manufacturing partner, the Company has purchased, and may be required to purchase in the future, certain of the remaining components inventory held by the CM or ODM as well as any outstanding orders pursuant to the contractual provisions with such CM or ODM. The estimated excess and obsolete component liabilities related to manufacturing and engineering change orders, termination of manufacturing partners and other factors are included in "Accrued liabilities" in the accompanying Consolidated Balance Sheets, because the corresponding component parts have not been received by the Company. The amounts were \$32.2 million and \$10.3 million as of December 31, 2023 and 2022, respectively. The Company records the related charges in "Cost of revenue" in its Consolidated Statements of Comprehensive Income.

As of December 31, 2023 and 2022, the Company had approximately \$176.3 million and \$340.6 million, respectively, of outstanding purchase commitments for inventories to be delivered by its suppliers, including CMs and ODMs.

#### Litigation

From time to time, the Company is involved in various legal proceedings arising from the normal course of business activities. The Company is not currently a party to any legal proceeding that, if determined adversely to the Company, in management's opinion, is currently expected to individually or in the aggregate have a material adverse effect on the Company's business, operating results or financial condition taken as a whole.

#### Indemnifications

The Company from time to time enters into contracts that require it to indemnify various parties against claims from third parties. These contracts primarily relate to (i) certain real estate leases, under which the Company may be required to indemnify property owners for environmental and other liabilities, and other claims arising from the Company's use of the applicable premises, (ii) agreements with the Company's officers, directors and certain employees, under which the Company may be required to indemnify such persons for liabilities arising out of their relationship with the Company, (iii) contracts under which the Company may be required to indemnify customers against third-party claims that a Company product infringes a patent, copyright or other intellectual property right and (iv) agreements under which the Company may be required to indemnify the counterparty for certain claims that may be brought against them arising from the Company's acts or omissions with respect to the transactions contemplated by such agreements.

Because any potential obligation associated with these types of contractual provisions are not quantified or stated, the overall maximum amount of the obligation cannot be reasonably estimated. Historically, the Company has not been required to make payments under these obligations, and no liabilities have been recorded for these obligations in the accompanying Consolidated Balance Sheets.

#### 6. Stockholders' Equity

#### **Preferred Stock**

The Board of Directors has the authority, without a further vote of the stockholders, to designate and issue up to 5.0 million shares of preferred stock in one or more series and to fix the rights, preferences, privileges and restrictions thereof. These rights, preferences and privileges could include dividend rights, conversion rights, voting rights, terms of redemption, liquidation preferences, sinking fund terms and the number of shares constituting any series or the designation of such series, any or all of which may be greater than the rights of common stock. The issuance of the Company's preferred stock could adversely affect the voting power of holders of common stock and the likelihood that such holders will receive dividend payments and payments upon liquidation. In addition, the issuance of preferred stock could have the effect of delaying, deferring or preventing a change in control of the Company or other corporate action. Since the Company's initial public offering, the Board of Directors has not designated any rights, preference or powers of any preferred stock, and no shares of preferred stock have been issued.

#### Common Stock

Holders of the Company's common stock are entitled to receive dividends, if any, as may be declared from time to time by the Board of Directors out of legally available funds. No dividends have been declared or paid as of December 31, 2023.

# Stock Repurchase Program

The Company maintains a common stock repurchase program. Under the repurchase program, repurchases can be made from time to time using a variety of methods, which may include open market purchases, privately negotiated transactions or otherwise, all in accordance with the rules of the SEC and other applicable legal requirements. The specific timing, price and size of the purchases depends on prevailing stock prices, general economic and market conditions, and other considerations consistent with the Company's capital allocation strategy. The repurchase program does not obligate the Company to acquire a particular amount of common stock, and the repurchase program may be suspended or discontinued at any time at the

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Company's discretion. During the year ended December 31, 2023, the Company purchased 2.2 million shares of common stock for \$86.4 million at an average price per share of \$39.09. As of December 31, 2023, the remaining authorized balance under this program was \$113.6 million.

#### **Equity Incentive Plans**

2019 Equity Incentive Award Plan

The 2019 Equity Incentive Award Plan (the "2019 Plan") supersedes and replaces the 2010 Equity Incentive Award Plan (the "2010 Plan") and preceding plans. The terms and conditions of the 2010 Plan will continue to govern any outstanding awards granted under the 2010 Plan. Employees and consultants of the Company, its subsidiaries and affiliates and the Company's Board of Directors members are eligible to receive awards under the 2019 Plan. The 2019 Plan provides for the grant of stock options, stock appreciation rights, restricted stock, restricted stock units or other stock or cash-based awards and dividend equivalents to eligible individuals. Stock options granted under the 2019 Plan are granted at a price not less than 100% of the fair market value of the common stock on the date of grant. Stock options issued under the 2019 Plan generally vest 25% on the first anniversary of the vesting commencement date and on a quarterly basis thereafter for a period of an additional three years. The options have a maximum term of ten years.

At the Company's 2023 annual meeting of stockholders, the stockholders approved an increase in the number of shares of common stock issuable under the 2019 Plan by 1.5 million shares. As of December 31, 2023, there were 5.0 million shares available for issuance under the 2019 Plan.

In February 2022, PSOs covering an aggregate of 0.7 million shares of common stock were awarded to certain executives with a grant date exercise price of \$55.96 per share. The actual number of shares underlying the PSOs that could become eligible to vest and become exercisable, or earned, was contingent upon achievement of annual corporate financial targets for bookings and non-GAAP operating income for 2022 (together, the "2022 Performance Targets") during the one-year performance period. In February 2023, the Compensation Committee of the Board of Directors certified achievement of the 2022 Performance Targets and determined that 100% of the shares underlying the PSOs were earned, subject to the four-year service condition. As such, 25% of the awarded shares underlying the PSOs were vested and became exercisable on the first anniversary of the grant date, and the remaining 75% of the shares of common stock will vest and become exercisable in substantially equal quarterly installments over the subsequent three years, subject to the executive's continued service with the Company through the respective vesting dates. Stock-based compensation expense of \$6.2 million and \$10.1 million was recognized for the years ended December 31, 2023 and 2022, respectively, related to these awards.

In February 2023, PSOs covering an aggregate of 1.2 million shares of common stock were awarded to certain executives with a grant date average exercise price of \$51.57 per share. The actual number of shares underlying the PSOs that could become earned is contingent upon achievement of annual corporate financial targets for bookings and non-GAAP operating income for 2023 (together, the "2023 Performance Targets") during the one-year performance period, with equal weighting for each measure. If either of the 2023 Performance Targets are achieved below 80% of target, no shares will be deemed earned for that measure and the corresponding PSOs will be forfeited. If both 2023 Performance Targets are achieved at or above the minimum threshold of 80%, then 50% of the shares allocable to each 2023 Performance Target will be deemed earned, with an increasing percentage of shares being earned for achievement above the minimum threshold, up to 125% of the shares allocable to the target. Each 2023 Performance Target result is then weighted by 50%, and the combined total determines the number of shares underlying the PSOs that are deemed earned, up to a maximum of 100% of the shares underlying the PSOs. During June 2023, the Compensation Committee approved an adjustment to the 2023 Performance Targets, resulting in incremental compensation cost of \$4.9 million that is recognized over the vesting period of the awards. Upon certification of achievement, any shares underlying the PSOs that are not deemed earned are immediately forfeited, and 25% of the shares underlying the PSOs that are deemed earned immediately vest and become exercisable upon the first anniversary of the grant date, with the remaining 75% of the earned shares vesting and becoming exercisable in substantially equal quarterly installments over the subsequent three years, in each case, subject to the executive's continued service with the Company through the respective vesting dates.

In February 2024, the Compensation Committee certified the achievement related to the adjusted 2023 Performance Targets and determined that 54.5% of shares underlying the PSOs were earned, subject to the on-going service condition. As such, 45.5% of the shares underlying the PSOs were immediately forfeited, 25% of the earned shares underlying the PSOs became vested and exercisable on the first anniversary of the grant date, and the remaining 75% of the earned shares underlying the PSOs will vest in substantially equal quarterly installments over the subsequent three years, subject to the executive's continued service with the Company through the respective vesting dates. Stock-based compensation expense of \$9.2 million was recognized for the year ended December 31, 2023 related to the PSOs.

The following table summarizes the stock option activity under the Company's equity incentive plans (in thousands, except per share data):

Stock Options	Number of Shares	Weighted- Average Weighted- Remaining Average Contractual Exercise Price Per Share (in years)			e ng nal Aggregate Intrinsic		
Outstanding as of December 31, 2022	8,287	\$	29.31	(m years)		Value	
Granted	2,542	Ψ	46.88				
Exercised	(466)		11.12				
Canceled	(40)		51.51				
Outstanding as of December 31, 2023	10,323	\$	34.37	7.3	\$	149,074	
Vested and expected to vest as of December 31, 2023	10,003	\$	33.97	7.3	\$	148,050	
Options exercisable as of December 31, 2023	5,532	\$	22.25	6.2	\$	133,001	

<sup>(1)</sup> Amounts represent the difference between the exercise price and the fair market value of common stock at December 31, 2023 of \$43.69 per share for all "in-the-money" options outstanding.

During the years ended December 31, 2023, 2022 and 2021, total intrinsic value of stock options exercised was \$16.7 million, \$31.0 million and \$59.6 million, respectively. Cash received from employee stock option exercises in 2023, 2022 and 2021 was \$5.2 million, \$6.7 million and \$11.2 million, respectively.

# Employee Stock Purchase Plans

The ESPP allows eligible employees to purchase shares of the Company's common stock through payroll deductions of up to 15% of their eligible compensation subject to certain Internal Revenue Code limitations. In addition, participants may purchase up to 2,000 shares of common stock in each offering period.

The offering periods under the ESPP are two six-month offering periods from August 15<sup>th</sup> through February 14<sup>th</sup> and February 15<sup>th</sup> through August 14<sup>th</sup> of each year. The price of common stock purchased under the ESPP is 85% of the lower of the fair market value of the common stock on the commencement date and the end date of each six-month offering period. The total shares authorized for issuance under the ESPP is 12.4 million shares. As of December 31, 2023, there were 4.5 million shares available for issuance under the ESPP. During the year ended December 31, 2023, 0.2 million shares were purchased under the ESPP. As of December 31, 2023, unrecognized stock-based compensation expense of \$0.4 million related to the ESPP is expected to be recognized over a remaining service period of 0.1 years.

The NQ ESPP allows eligible employees to purchase shares of the Company's common stock through payroll deductions of up to 25% of their eligible recurring compensation. Eligible employees have the right to (a) purchase the maximum number of whole shares of common stock that can be purchased with the elected payroll deductions during each offering period for which the employee is enrolled at a purchase price equal to the closing price of the Company's common stock on the last day of such offering period and (b) receive an equal number of shares of the Company's common stock that are subject to a risk of forfeiture in the event the employee terminates employment within the one year period immediately following the purchase date. The NQ ESPP provides quarterly offering periods from February 8<sup>th</sup> through May 7<sup>th</sup>, May 8<sup>th</sup> through August 7<sup>th</sup>, August 8<sup>th</sup> through November 7<sup>th</sup> and November 8<sup>th</sup> through February 7<sup>th</sup> of each year, with a maximum of 0.25 million shares allocated per purchase period.

At the Company's 2023 annual meeting of stockholders, the stockholders approved an increase in the number of shares of common stock issuable under the NQ ESPP by 1.2 million shares. The maximum number of shares of common stock currently authorized for issuance under the NQ ESPP is 7.5 million shares. As of December 31, 2023, there were 3.4 million shares available for issuance under the NQ ESPP. During the year ended December 31, 2023, 0.9 million shares were purchased and issued. As of December 31, 2023, unrecognized stock-based compensation expense of \$10.8 million related to the NQ ESPP is expected to be recognized over a remaining weighted-average service period of 0.8 years.

#### Stock-Based Compensation

The following table summarizes stock-based compensation expense (in thousands):

	Years Ended December 31,					
		2023		2022		2021
Cost of revenue	\$	2,913	\$	2,700	\$	1,458
Sales and marketing		16,893		12,001		6,728
Research and development		17,000		12,165		6,769
General and administrative		25,965		17,960		9,275
	\$	62,771	\$	44,826	\$	24,230
Income tax benefits recognized	\$	10,993	\$	11,501	\$	16,929

The following table summarizes the weighted-average grant date fair values of the Company's stock-based awards granted in the periods indicated:

	Years Ended December 31,				
	 2023		2022		2021
Stock options	\$ 23.02	\$	31.86	\$	26.55
ESPP	\$ 17.96	\$	18.51	\$	12.93
NQ ESPP	\$ 42.51	\$	52.91	\$	55.50

The Company values employee stock purchase rights under the NQ ESPP at the closing market price of the Company's common stock on the date of grant.

The Company estimates the fair value of stock options and employee stock purchase right under the ESPP at the grant date using the Black-Scholes option-pricing model. This model requires the use of the following assumptions:

- (i) Expected volatility of the Company's common stock The Company computes its expected volatility assumption based on a blended volatility (50% historical volatility and 50% implied volatility from traded options on the Company's common stock). The selection of a blended volatility assumption was based upon the Company's assessment that a blended volatility is more representative of the Company's future stock price trend as it weighs the historical volatility with the future implied volatility.
- (ii) Expected life of the option award Represents the weighted-average period that the stock options are expected to remain outstanding. The Company's computation of expected life utilizes the simplified method in accordance with Staff Accounting Bulletin No. 110 due to the lack of sufficient historical exercise data to provide a reasonable basis upon which to estimate expected term. The mid-point between the vesting date and the expiration date is used as the expected term under this method.
- (iii) Expected dividend yield The assumption is zero based on the Company's history of not paying dividends and no future expectations of dividend payouts.
- (iv) Risk-free interest rate Based on the U.S. Treasury yield curve in effect at the time of grant with maturities approximating the grant's expected life

The following table summarizes the weighted-average assumptions used in estimating the grant-date fair value of stock options and of each employee's purchase right under the ESPP in the periods indicated:

	Years Ended December 31,				
Stock Options	2023	2022	2021		
Expected volatility	52 %	58 %	56 %		
Expected life (years)	6.1	6.1	6.0		
Risk-free interest rate	4.02 %	3.15 %	1.11 %		
	Years Ended December 31,				
	Years	Ended December 31,			
ESPP	2023	Ended December 31, 2022	2021		
ESPP Expected volatility			2021 63 %		
	2023	2022	-		
Expected volatility	2023 47 %	62 %	63 %		

In addition, the Company applies an estimated forfeiture rate to awards granted and records stock-based compensation expense only for those awards that are expected to vest. Forfeiture rates are estimated at the time of grant based on the Company's

historical experience. Further, to the extent the Company's actual forfeiture rate is different from management's estimate, stock-based compensation is adjusted accordingly.

As of December 31, 2023, unrecognized stock-based compensation expense by award type, net of estimated forfeitures, and their expected weighted-average recognition periods are summarized in the following table (in thousands).

	Sto	ck Option	ESPPs
Unrecognized stock-based compensation expense	\$	76,859	\$ 11,235
Weighted-average amortization period (in years)		2.1	0.8

The Company expects to recognize stock-based compensation expense of \$44.6 million in 2024, \$25.1 million in 2025, \$15.0 million in 2026 and \$3.4 million in 2027.

Shares Reserved for Future Issuance

As of December 31, 2023, the Company had common shares reserved for future issuance as follows (in thousands):

10,323
4,984
4,508
3,385
23,200

## 7. Employee Benefit Plan

The Company sponsors a 401(k) tax-deferred savings plan for all employees who meet certain eligibility requirements. Participants may contribute, on a pre-tax basis, a percentage of their annual compensation, but not to exceed a maximum contribution amount pursuant to Section 401(k) of the Internal Revenue Code. The Company, at the discretion of the Board of Directors, may make additional matching contributions on behalf of the participants. The Company made matching contributions totaling \$5.2 million, \$4.1 million and \$3.2 million in 2023, 2022 and 2021, respectively.

#### 8. Accumulated Other Comprehensive Loss

The table below summarizes the changes in accumulated other comprehensive loss by component:

	and Avails M	alized Gains l Losses on able-for-Sale arketable ecurities	Tra	n Currency inslation ustments	Total
Balance as of December 31, 2021	\$	(179)	\$	(141)	\$ (320)
Other comprehensive loss		(1,521)		(632)	(2,153)
Balance as of December 31, 2022		(1,700)		(773)	 (2,473)
Other comprehensive income		1,701		113	1,814
Balance as of December 31, 2023	\$	1	\$	(660)	\$ (659)

Assets and liabilities of the Company's wholly owned foreign subsidiaries are translated from their respective functional currencies at exchange rates in effect at the balance sheet date, and revenue and expenses are translated at the monthly average exchanges rates. These translations result in differences called foreign currency translation adjustments. Realized foreign currency transaction gains or losses were not significant during the years ended December 31, 2023, 2022 and 2021 and are recorded in "Other expense, net" in the Company's Consolidated Statements of Comprehensive Income. Realized gains and losses on sales of available-for-sale marketable securities, if any, are reclassified from accumulated other comprehensive loss to "Other expense, net" in our Consolidated Statements of Comprehensive Income.

## 9. Income Taxes

The domestic and foreign components of income before incomes taxes were as follows (in thousands):

	Years Ended December 31,				
	2023		2022		2021
Domestic	\$ 30,983	\$	51,442	\$	70,776
Foreign	3,774		2,600		1,878
	\$ 34,757	\$	54,042	\$	72,654

Income taxes consisted of the following (in thousands):

		Years Ended December 31,				
	<u></u>	2023	2022			2021
Current:	·					
Federal	\$	(2,407)	\$	3,671	\$	_
State		6,493		6,555		2,818
Foreign		2,006		874		438
Current income tax		6,092		11,100		3,256
Deferred:						
Federal		2,050		6,336		(157,355)
State		(2,525)		(4,372)		(11,631)
Foreign		(185)		(32)		6
Deferred income tax		(660)		1,932		(168,980)
	\$	5,432	\$	13,032	\$	(165,724)

The differences between the statutory and effective tax rates, expressed as a percentage of net income before income taxes, were as follows:

	Years Ended December 31,				
	2023	2022	2021		
Federal statutory rate	21.0 %	21.0 %	21.0 %		
Impact of state taxes	2.6	(4.9)	(16.4)		
Foreign operations	0.8	_	(0.2)		
R&D tax credits	(13.5)	(9.1)	(1.9)		
U.S. tax impact of foreign operations	(2.4)	7.8	_		
Stock-based compensation	8.8	_	(12.8)		
Other permanent items	2.5	1.2	0.7		
Provision to return adjustments	(9.7)	(0.4)	(0.3)		
Valuation allowance	_	1.3	(208.3)		
Attribute expiration	0.8	5.5	(13.1)		
Uncertain tax positions	4.7	1.7	3.2		
	15.6 %	24.1 %	(228.1)%		

The significant components of the Company's deferred tax assets were as follows (in thousands):

	December 31,		
	 2023		2022
Deferred tax assets:			
Net operating loss carryforwards	\$ 1,020	\$	44,188
Tax credit carryforwards	58,349		56,717
Inventory	16,592		5,986
Accruals and reserves	6,684		4,949
Deferred revenue	13,460		13,156
Stock-based compensation	12,087		7,417
Lease liability	2,277		2,346
Capitalized R&D	93,340		67,925
Other	144		9
Gross deferred tax assets	 203,953		202,693
Valuation allowance	(29,908)		(29,914)
Total deferred tax assets	 174,045		172,779
Deferred tax liabilities:			
Fixed assets	(1,484)		(2,648)
Right of use assets	(1,710)		(1,602)
Intangible assets	(3,160)		(1,498)
Total deferred tax liabilities	 (6,354)		(5,748)
	\$ 167,691	\$	167,031

All deferred taxes, along with any related valuation allowance, are classified in the Consolidated Balance Sheet as long-term.

A valuation allowance is required when, based upon an assessment of various factors, including recent operating loss history, anticipated future earnings, and prudent and reasonable tax planning strategies, it is more likely than not that some portion of the deferred tax assets will not be realized. At each reporting period, the Company assesses the estimated future realizability of the gross carrying value of its deferred tax assets. The Company's periodic assessments take into consideration both positive evidence (future profitability projections for example and recent financial performance) and negative evidence (historical financial performance for example) as it relates to evaluating the future recoverability of its deferred tax assets. During 2021, the Company released its valuation allowance for federal and state (with the exception of California) deferred tax assets that are more likely than not to be realized, primarily as a result of actual and projected increases in U.S. profitability in the current and future periods. In performing its analysis, the Company used the most updated plans and estimates that it currently uses to manage the underlying business and calculated the ability to utilize its deferred tax assets. The valuation allowance decreased by less than \$0.1 million from 2022 to 2023. The Company continues to maintain a valuation allowance of \$29.9 million on certain U.S. federal and state deferred tax assets that the Company believes are not more likely than not to be realized in future periods.

As of December 31, 2023, the Company had U.S. state net operating losses of approximately \$16.5 million which will expire at various dates through 2039 if not utilized. Additionally, the Company has U.S. federal, California and other U.S. states research and development credits of approximately \$44.9 million, \$49.7 million and \$2.7 million as of December 31, 2023, respectively. The U.S. federal research and development credits will expire at various dates through 2043 if not utilized. The California research and development credits have no expiration date. The credits related to other various U.S. states have begun to expire and will continue to expire at various dates through 2038.

#### **Uncertain Tax Positions**

ASC 740, "Income Taxes," prescribes a recognition threshold and measurement attribute to the financial statement recognition and measurement of a tax position taken or expected to be taken in a tax return. The guidance also provides guidance on derecognition, classification, accounting in interim periods and disclosure requirements for uncertain tax positions. The standard requires the Company to recognize the financial statement effects of an uncertain tax position when it is more likely than not that such position will be sustained upon audit. The Company recognizes accrued interest and penalties related to unrecognized tax benefits as interest expense and income tax expense, respectively, in its Consolidated Statements of Comprehensive Income.

The Company's unrecognized tax benefits were as follows (in thousands):

	Years Ended December 31,			er 31,
		2023		2022
Balance at beginning of year	\$	29,215	\$	25,992
Reduction for tax positions related to prior year		(19)		(905)
Additions for tax positions related to prior year		580		1,232
Additions for tax positions related to current year		2,673		2,896
Balance at end of year	\$	32,449	\$	29,215

As of December 31, 2023 and 2022, the Company had unrecognized tax benefits of \$32.4 million and \$29.2 million, respectively, \$17.6 million of which would affect the Company's effective tax rate if recognized. There were no accrued interest or penalties for uncertain income tax as of December 31, 2023.

The Company files tax returns in the United States and various state jurisdictions, China, India and the United Kingdom. The tax years 2000 through 2023 remain open and subject to examination by the appropriate governmental agencies due to tax attribute carryforwards.

#### 10 Net Income Per Common Share

The computation of basic and diluted net income per common share for the periods indicated was as follows (in thousands, except per share data):

	Years Ended December 31,					
	· <u></u>	2023		2022		2021
Numerator:						
Net income	\$	29,325	\$	41,010	\$	238,378
Denominator:						
Weighted-average common shares — basic	Weighted-average common shares — basic 65,980			65,058		63,277
Effect of dilutive potential common shares	3,340			3,853		4,579
Weighted-average common shares — diluted	69,320		68,911		67,8:	
Basic net income per common share	\$	0.44	\$	0.63	\$	3.77
1		0.42	\$	0.60	\$	3.51
Potentially dilutive shares excluded, weighted-average 4,688		4,688		1,758		1,006

Unvested restricted stock awards are included in the calculation of basic weighted-average shares because such shares are participating securities; however, the impact was immaterial.

Potentially dilutive shares have been excluded from the computation of diluted net income per common share when their effect is antidilutive. These antidilutive shares were primarily from stock options.

# 11. Revenue from Contracts with Customers

The Company develops, markets and sells a broadband platform and managed services, and there are no segment managers who are held accountable for operations, operating results and plans for levels or components below the Company unit level. Accordingly, the Company is considered to be in a single reporting segment and operating unit structure. The Company's chief operating decision maker is the Company's Chief Executive Officer, who reviews financial information presented on a Company-wide basis, for purposes of allocating resources and evaluating financial performance.

#### Geographic Information:

A summary of revenue disaggregated by geographic region based upon the location of the customers was as follows (in thousands):

	Years Ended December 31,					
		2023		2022		2021
United States	\$	944,201	\$	786,802	\$	565,964
Europe		54,265		26,916		45,879
Americas excluding U.S.		32,696		41,892		45,719
Middle East & Africa		7,457		10,885		19,018
Asia Pacific		974		1,332		2,814
	\$	1,039,593	\$	867,827	\$	679,394

The Company's property and equipment, net of accumulated depreciation, were located in the following geographical areas (in thousands):

	December 31,			
	 2023		2022	
United States	\$ 25,231	\$	21,785	
China	3,385		3,220	
India	845		829	
	\$ 29,461	\$	25,834	

#### Contract Asset

Contract assets include amounts recognized as revenue prior to the Company's contractual right to bill the customer. Amounts are billed in accordance with the agreed-upon contractual terms. The balance as of December 31, 2023 was \$4.7 million of which the Company expects to bill 67% of the balance during 2024.

#### Contract Liability

Deferred revenue was \$61.5 million and \$58.6 million as of December 31, 2023 and 2022, respectively. The increase in deferred revenue of \$2.9 million is primarily driven by cash payments received or due in advance of satisfying the Company's performance obligations and balances reclassified to contract assets during the year being greater than the \$29.2 million of revenue recognized that was included in the deferred revenue balance at the beginning of the year.

Revenue allocated to remaining performance obligations ("RPOs") represents contract revenue that has not yet been recognized, which includes deferred revenue and amounts that will be invoiced and recognized as revenue in future periods but excludes variable consideration where the monthly invoicing is based on usage or where actual usage exceeds the minimum commitment. RPOs were \$242.5 million as of December 31, 2023, and the Company expects to recognize as revenue 39% of this amount over the next 12 months and a majority of the remainder over the two years thereafter.

#### Contract Costs

The Company capitalizes certain sales commissions related primarily to multi-year subscriptions and extended warranty support for which the expected amortization period is greater than one year. As of December 31, 2023 and 2022, the unamortized balance of deferred commissions was \$12.0 million and \$11.2 million, respectively. For the years ended December 31, 2023, 2022 and 2021, the amount of amortization was \$6.5 million, \$4.0 million and \$1.4 million, respectively. There was no impairment loss in relation to the costs capitalized for these respective periods.

#### Concentration of Customer Risk

No customer accounted for more than 10% of the Company's revenue for the years ended December 31, 2023, 2022 and 2021.

One customer represented 19% and 11% of the Company's accounts receivable as of December 31, 2023 and 2022, respectively. Another customer represented 14% of the Company's accounts receivable as of December 31, 2023.

#### ITEM 9. Changes in and Disagreements with Accountants on Accounting and Financial Disclosure

There were no changes in nor any disagreements with accountants on accounting principles or practices, financial statement disclosure, auditing scope or procedures, or other reportable events requiring disclosure pursuant to Item 304(b) of Regulation S-K.

#### ITEM 9A. Controls and Procedures

#### **Evaluation of Disclosure Controls and Procedures**

As of the end of the period covered by this report, which we refer to as the evaluation date, we carried out an evaluation under the supervision and with the participation of management, including our principle executive officer and principle financial officer, of our disclosure controls and procedures (as defined in Rules 13a-15(e) and 15d-15(e) under the Exchange Act).

The purpose of this evaluation was to determine whether as of the evaluation date our disclosure controls and procedures were effective to provide reasonable assurance that the information we are required to disclose in our filings with the SEC, (i) is recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms and (ii) accumulated and communicated to our management, including our principal executive officer and our principal financial officer, as appropriate to allow timely decisions regarding required disclosure. Based upon this evaluation, our principal executive officer and our principal financial officer concluded that our disclosure controls and procedures were effective at the reasonable assurance level as of the end of the period covered by this report.

#### Management's Report on Internal Control Over Financial Reporting

Management is responsible for establishing and maintaining adequate internal control over financial reporting. Our internal control over financial reporting is designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate. Management has evaluated the effectiveness of our internal control over financial reporting as of December 31, 2023 using the criteria set forth in the Internal Control—Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission, or COSO, (2013 framework). Based on our evaluation, management has concluded that we maintained effective control over financial reporting as of December 31, 2023 based on the COSO criteria. The effectiveness of our internal control over financial reporting as of December 31, 2023 has been audited by KPMG LLP, an independent registered public accounting firm, as stated in their report included in this Annual Report on Form 10-K.

#### Limitations on the Effectiveness of Controls

Our disclosure controls and procedures provide our principal executive officer and our principal financial officer reasonable assurances that our disclosure controls and procedures will achieve their objectives. However, our management, including our principal executive officer and our principal financial officer, does not expect that our disclosure controls and procedures or our internal control over financial reporting can or will prevent all human error. A control system, no matter how well designed and implemented, can provide only reasonable, not absolute, assurance that the objectives of the control system are met. Furthermore, the design of a control system must reflect the fact that there are internal resource constraints, and the benefit of controls must be weighed relative to their corresponding costs. Because of the limitations in all control systems, no evaluation of controls can provide complete assurance that all control issues and instances of error, if any, within our company are detected. These inherent limitations include the realities that judgments in decision-making can be faulty, and that breakdowns can occur due to human error or mistake. Additionally, controls, no matter how well designed, could be circumvented by the individual acts of specific persons within the organization. The design of any system of controls is also based in part upon certain assumptions about the likelihood of future events, and there can be no assurance that any design will succeed in achieving its stated objectives under all potential future conditions.

#### Changes in Internal Control over Financial Reporting

There was no change in our internal control over financial reporting identified in connection with the evaluation required by Rule 13a-15(d) and 15d-15(d) of the Exchange Act that occurred during the fourth quarter of 2023 that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

# ITEM 9B. Other Information

None.

## ITEM 9C. Disclosure Regarding Foreign Jurisdictions that Prevent Inspections

Not applicable.

#### PART III

#### ITEM 10. Directors, Executive Officers and Corporate Governance

Information required by this Item 10 relating to our directors is incorporated by reference to the information set forth under the captions "Proposal No. 1— Election of Directors" and "Director Compensation" and in other applicable sections of the Proxy Statement for the 2024 Annual Meeting of Stockholders to be filed with the Securities and Exchange Commission pursuant to Regulation 14A of the Exchange Act, or the Proxy Statement, to be filed within 120 days of the end of the fiscal year covered by this Report. Information required by this Item 10 relating to our officers is incorporated by reference to the information set forth under the captions "Executive Officers" and "Executive Compensation" and in other applicable sections of the Proxy Statement. Information regarding our Section 16 reporting compliance is incorporated by reference to the information set forth under the captions "Security Ownership of Certain Beneficial Owners and Management" and "Section 16(a) Beneficial Ownership Reporting Compliance" of the Proxy Statement.

We have adopted a code of ethics, which applies to all employees, officers and directors of Calix. The Code of Business Conduct and Ethics meets the requirements of a "code of ethics" as defined by Item 406 of Regulation S-K, and applies to our Chief Executive Officer, Chief Financial Officer and all other employees, as indicated above. The Code of Business Conduct and Ethics also meets the requirements of a code of conduct under NYSE listing standards. The Code of Business Conduct and Ethics is posted on our website at www.calix.com under the links "About - Investor Relations - Governance - Code of Conduct." We intend to disclose any amendments to the Code of Business Conduct and Ethics, as well as any waivers for executive officers or directors, on our website at www.calix.com.

#### ITEM 11. Executive Compensation

Information required by this Item 11 relating to executive compensation and other matters is incorporated by reference to the information set forth under the caption "Compensation Discussion and Analysis" and in other applicable sections of the Proxy Statement.

#### ITEM 12. Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters

Information required by this Item 12 relating to security ownership of certain beneficial owners and management and related stockholder matters is incorporated by reference to the information set forth under the caption "Security Ownership of Certain Beneficial Owners and Management" and in other applicable sections of the Proxy Statement. Information regarding securities authorized for issuance under our equity compensation plans is incorporated by reference to the information set forth under the caption "Equity Compensation Plan Information" of the Proxy Statement.

# ITEM 13. Certain Relationships and Related Transactions, and Director Independence

Information required by this Item 13 relating to certain relationships and related transactions and director independence is incorporated by reference to the information set forth under the caption "Certain Relationships and Related Transactions" and in other applicable sections of the Proxy Statement.

# ITEM 14. Principal Accountant Fees and Services

Our independent registered public accounting firm is KPMG LLP, Santa Clara, CA Auditor Firm ID: 185

Information required by this Item 14 relating to principal account fees and services is incorporated by reference to the information set forth under the caption "Principal Accountant Fees and Services" of the Proxy Statement.

#### PART IV

#### ITEM 15. Exhibits, Financial Statement Schedules

(a) The following documents are filed as part of this Report:

#### 1. Consolidated Financial Statements

The consolidated financial statements of Calix and the report of independent registered public accounting firm thereon are set forth under Part II, Item 8 of this report.

Report of Independent Registered Public Accounting Firm	36
Consolidated Balance Sheets, As of December 31, 2023 and 2022	38
Consolidated Statements of Comprehensive Income, Years Ended December 31, 2023, 2022 and 2021	39
Consolidated Statements of Stockholders' Equity, Years Ended December 31, 2023, 2022 and 2021	40
Consolidated Statements of Cash Flows, Years Ended December 31, 2023, 2022 and 2021	41
Notes to Consolidated Financial Statements	42

## 2. Consolidated Financial Statement Schedules

All schedules have been omitted because they are not applicable, not required, not presently in amounts sufficient to require submission of the schedule, or the information required to be set forth therein is included in the consolidated financial statements or notes thereto.

#### 3. Exhibits

The following exhibits are filed with or incorporated by reference in this report. Where such filing is made by incorporation by reference to a previously filed registration statement or report, such registration statement or report is identified in parentheses. We will furnish any exhibit upon request to: Calix Investor Relations at InvestorRelations@calix.com.

Exhibit Number	Description
3.1	Amended and Restated Certificate of Incorporation of Calix, Inc. (filed as Exhibit 3.3 to Amendment No. 7 to Calix's Registration Statement on Form S-1 filed with the Securities and Exchange Commission on March 23, 2010 (File No. 333-163252) and incorporated by reference)
3.2	Amended and Restated Bylaws of Calix, Inc. (filed as Exhibit 3.5 to Amendment No. 7 to Calix's Registration Statement on Form S-1 filed with the Securities and Exchange Commission on March 23, 2010 (File No. 333-163252) and incorporated by reference)
4.1	Form of Calix, Inc.'s Common Stock Certificate (filed as Exhibit 4.1 to Amendment No. 7 to Calix's Registration Statement on Form S-1 filed with the Securities and Exchange Commission on March 23, 2010 (File No. 333-163252) and incorporated by reference)
4.2	Description of Securities (filed as Exhibit 4.2 to Calix's Form 10-K filed with the SEC on February 21, 2020 (File No. 001-34674) and incorporated by reference).
10.1*	Calix, Inc. 2010 Equity Incentive Award Plan and related documents (filed as Exhibit 10.4 to Amendment No. 6 to Calix's Registration Statement on Form S-1 filed with the SEC on March 8, 2010 (File No. 333-163252) and incorporated by reference)
10.2	Form of Indemnification Agreement made by and between Calix, Inc. and each of its directors, executive officers and some employees (filed as Exhibit 10.5 to Amendment No. 6 to Calix's Registration Statement on Form S-1 filed with the SEC on March 8, 2010 (File No. 333-163252) and incorporated by reference)
10.3*	Offer Letter between Calix, Inc. and Carl Russo dated November 1, 2006 (filed as Exhibit 10.8 to Amendment No. 1 to Calix's Registration Statement on Form S-1 filed with the SEC on December 31, 2009 (File No. 333-163252) and incorporated by reference)
10.4*	Offer Letter by and between Calix, Inc. and Michael Weening dated May 20, 2016 (filed as Exhibit 10.1 to Calix's Form 10-Q filed with the SEC on August 3, 2016 (File No. 001-34674) and incorporated by reference)
10.5*	Letter Agreement dated November 27, 2019 by and between Calix, Inc. and Michael Weening (filed as Exhibit 10.2 to Calix's Form 8-K filed with the SEC on December 3, 2019 (File No. 001-34674) and incorporated by reference)
10.6*	Amendment to Letter Agreement dated November 12, 2020 between Calix, Inc. and Michael Weening (filed as Exhibit 10.6 to Calix's Form 10-K filed with the SEC on February 22, 2021 (File No. 001-34674) and incorporated by reference)
10.7*	Offer Letter between Calix, Inc. and Cory Sindelar dated September 28, 2017 (filed as Exhibit 10.2 to Calix's Form 10-Q filed with the SEC on August 11, 2017 (File No. 001-34674) and incorporated by reference)
10.8*	Nonstatutory Inducement Stock Option Grant Notice between Calix, Inc. and Cory Sindelar dated October 1, 2017 (filed as Exhibit 10.3 to Calix's Form 10-Q filed with the SEC on August 11, 2017 (File No. 001-34674) and incorporated by reference)
10.9*	Letter Agreement dated November 27, 2019 by and between Calix, Inc. and Cory Sindelar (filed as Exhibit 10.1 to Calix's Form 8-K filed with the SEC on December 3, 2019 (File No. 001-34674) and incorporated by reference)
10.10	Net Lease Agreement by and between Calix, Inc. and Orchard Parkway San Jose, LLC dated March 9, 2018 (filed as Exhibit 10.2 to Calix's Form 10-Q filed with the SEC on May 5, 2018 (File No. 001-34674) and incorporated by reference)

Exhibit Number	Description
10.11	First Amendment to Net Lease Agreement by and between Calix, Inc. and Orchard Parkway San Jose, LLC dated November 14, 2018 (filed as Exhibit 10.30 to Calix's Form 10-K filed with the SEC on March 1, 2019 (File No. 001-34674) and incorporated by reference)
10.12	Second Amendment to Net Lease Agreement by and between Calix, Inc. and Orchard Parkway San Jose, LLC dated December 10, 2020 (filed as Exhibit 10.12 to Calix's Form 10-K filed with the SEC on February 22, 2021 (File No. 001-34674) and incorporated by reference)
10.13*	Calix, Inc. 2019 Equity Incentive Award Plan (incorporated by reference to Appendix A to the Registrant's definitive proxy statement on Schedule 14A, filed with the SEC on April 1, 2020 (File No. 001-34674))
10.14*	Calix, Inc. 2019 Equity Incentive Award Plan - Form of Notice of Grant of Stock Option and Option Agreement (filed as Exhibit 10.14 to Calix's Form 10-K filed with the SEC on February 22, 2021 (File No. 001-34674) and incorporated by reference)
10.15*	Calix, Inc. Non-Employee Director Cash Compensation Policy, as amended May 16, 2019 (filed as Exhibit 10.1 to Calix's Form 10-Q filed with the SEC on July 25, 2019 (File No. 001-34674) and incorporated by reference)
10.16*	Calix, Inc. Non-Employee Director Equity Compensation Policy, as amended May 16, 2019 (filed as Exhibit 10.2 to Calix's Form 10-Q filed with the SEC on July 25, 2019 (File No. 001-34674) and incorporated by reference)
10.17*	Amended and Restated Employee Stock Purchase Plan effective April 24, 2020 (filed as Exhibit 10.1 to Calix's Form 10-Q filed with the SEC on July 21, 2020 (File No. 001-34674) and incorporated by reference)
10.18*	Amended and Restated 2017 Nonqualified Employee Stock Purchase Plan effective April 24, 2020 (filed as Exhibit 10.2 to Calix's Form 10-Q filed with the SEC on July 21, 2020 (File No. 001-34674) and incorporated by reference)
10.19*	Calix, Inc. Amended and Restated Executive Change in Control and Severance Plan effective March 26, 2021 (filed as Exhibit 10.1 to Calix's Form 10-Q filed with the SEC on April 27, 2021 (File No. 001-34674) and incorporated by reference)
10.20*	Calix, Inc. Non-Employee Director Cash Compensation Policy, as amended February 11, 2021 (filed as Exhibit 10.2 to Calix's Form 10-Q filed with the SEC on April 27, 2021 (File No. 001-34674) and incorporated by reference)
10.21*	Calix, Inc. Non-Employee Director Equity Compensation Policy, as amended February 11, 2021 (filed as Exhibit 10.3 to Calix's Form 10-Q filed with the SEC on July 27, 2021 (File No. 001-34674) and incorporated by reference)
10.22*	Calix, Inc. Non-Employee Director Cash Compensation Policy, as amended August 11, 2021 (filed as Exhibit 10.1 to Calix's Form 10-Q filed with the SEC on October 26, 2021 (File No. 001-34674) and incorporated by reference)
10.23*	Second Amendment to Letter Agreement between Calix, Inc. and Michael Weening dated August 11, 2021 (filed as Exhibit 10.2 to Calix's Form 10-Q filed with the SEC on October 26, 2021 (File No. 001-34674) and incorporated by reference)
10.24*	Promotion Letter between Calix, Inc. and Michael Weening dated September 30, 2022 (filed as Exhibit 10.1 to Calix's Form 10-Q filed with the SEC on October 25, 2022 (File No. 001-34674) and incorporated by reference)
10.25*	Consulting Agreement between Calix, Inc. and Michael Everett dated March 30, 2023 (filed as Exhibit 10.1 to Calix's Form 10-Q filed with the SEC on April 24, 2023 (File No. 001-34674) and incorporated by reference)
10.26*	Calix, Inc. Non-Employee Director Cash Compensation Policy, as amended February 9, 2023 (filed as Exhibit 10.1 to Calix's Form 10-Q filed with the SEC on July 24, 2023 (File No. 001-34674) and incorporated by reference)
10.27*	Calix, Inc. Non-Employee Director Equity Compensation Policy, as amended February 9, 2023 (filed as Exhibit 10.2 to Calix's Form 10-Q filed with the SEC on July 24, 2023 (File No. 001-34674) and incorporated by reference)
21.1	Subsidiaries of the Registrant
23.1	Consent of KPMG LLP, independent registered public accounting firm
24.1	Power of Attorney (included on signature page to this Annual Report on Form 10-K)
31.1	Certification of Principal Executive Officer of Calix, Inc. Pursuant to Rule 13a-14(a) of the Securities Exchange Act of 1934
31.2	Certification of Principal Financial Officer of Calix, Inc. Pursuant to Rule 13a-14(a) of the Securities Exchange Act of 1934
32.1	Certification of Principal Executive Officer and Principal Financial Officer of Calix, Inc. Pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002
97	Calix, Inc. Policy for Recovery of Erroneously Awarded Compensation dated October 2, 2023
101.INS	XBRL Instance Document
101.SCH	XBRL Taxonomy Extension Schema Document
101.CAL	XBRL Taxonomy Extension Calculation Linkbase Document
101.DEF	XBRL Taxonomy Extension Definition Linkbase Document
101.LAB	XBRL Taxonomy Extension Label Linkbase Document
101.PRE	XBRL Taxonomy Extension Presentation Linkbase Document
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<sup>\*</sup> Indicates management contract or compensatory plan or arrangement.

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# ITEM 16. Form 10-K Summary

None.

# **SIGNATURES**

Pursuant to the requirements of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized.

		Calix, Inc (Registrat	c. nt)
Dated:	February 22, 2024	By:	/s/ Michael Weening
		•	Michael Weening
			President, Chief Executive Officer and Director (Principal Executive Officer)
Dated:	February 22, 2024	Ву:	/s/ Cory Sindelar
			Cory Sindelar
			Chief Financial Officer (Principal Financial Officer)

#### POWER OF ATTORNEY

Each person whose individual signature appears below hereby authorizes and appoints Michael Weening and Cory Sindelar, and each of them, with full power of substitution and re-substitution and full power to act without the other, as his true and lawful attorney-in-fact and agent to act in his name, place and stead and to execute in the name and on behalf of each person, individually and in each capacity stated below, and to file any and all amendments to this Annual Report on Form 10-K, and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing, ratifying and confirming all that said attorneys-in-fact and agents or any of them or their or his substitute or substitutes may lawfully do or cause to be done by virtue thereof.

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities indicated on February 22, 2024.

<u>Signature</u>	<u>Title</u>	<u>Date</u>
/s/ Michael Weening Michael Weening	President, Chief Executive Officer and Director (Principal Executive Officer)	February 22, 2024
/s/ Cory Sindelar Cory Sindelar	Chief Financial Officer (Principal Financial Officer)	February 22, 2024
/s/ Carl Russo Carl Russo	Chairman of the Board of Directors	February 22, 2024
/s/ Don Listwin Don Listwin	Lead Independent Director	February 22, 2024
/s/ Christopher Bowick Christopher Bowick	Director	February 22, 2024
/s/ Kathy Crusco Kathy Crusco	Director	February 22, 2024
/s/ Eleanor Fields Eleanor Fields	Director	February 22, 2024
/s/ Kira Makagon Kira Makagon	Director	February 22, 2024
/s/ Rajatish Mukherjee Rajatish Mukherjee	Director	February 22, 2024
/s/ Kevin Peters Kevin Peters	Director	February 22, 2024

# SUBSIDIARIES OF THE REGISTRANT

Entity Name	<u>Jurisdiction</u>
Calix Network Technology Development (Nanjing) Co. Ltd.	China
Calix Networks UK, Ltd.	England, UK
CIDC Private Limited	India
Calix Korea Yuhan Chegim Hoesa	South Korea
Calix International, Inc.	United States
Calix Ireland Limited	Ireland
NRVOUS, LLC	United States

# Consent of Independent Registered Public Accounting Firm

We consent to the incorporation by reference in the registration statements (No. 333-166245, 333-172379, 333-185025, 333-194054, 333-202496, 333-209732, 333-216323, 333-218066, 333-223637, 333-226682, 333-230023, 333-234355, 333-240106, and 333-258197) on Form S-8 and (No. 333-240105) on Form S-3 of our report dated February 22, 2024, with respect to the consolidated financial statements of Calix, Inc. and the effectiveness of internal control over financial reporting.

/s/ KPMG LLP

Santa Clara, California February 22, 2024

# CERTIFICATION OF PRINCIPAL EXECUTIVE OFFICER PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

#### I, Michael Weening, certify that:

- 1. I have reviewed this annual report on Form 10-K of Calix, Inc. for the year ended December 31, 2023;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
  - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting;
- 5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 22, 2024 /s/ Michael Weening

Michael Weening President, Chief Executive Officer and Director (Principal Executive Officer)

# CERTIFICATION OF PRINCIPAL FINANCIAL OFFICER PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

#### I, Cory Sindelar, certify that:

- 1. I have reviewed this annual report on Form 10-K of Calix, Inc. for the year ended December 31, 2023;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
  - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting;
- 5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 22, 2024 /s/ Cory Sindelar

Cory Sindelar Chief Financial Officer (Principal Financial Officer)

# CERTIFICATION OF PRINCIPAL EXECUTIVE OFFICER AND PRINCIPAL FINANCIAL OFFICER PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

I, Michael Weening, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that the Annual Report of Calix, Inc. (the "Company") on Form 10-K for the fiscal year ended December 31, 2023 fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934 and that information contained in such Annual Report on Form 10-K fairly presents in all material respects the financial condition and results of operations of the Company.

Date: February 22, 2024 /s/ Michael Weening

Michael Weening

President, Chief Executive Officer and Director

(Principal Executive Officer)

I, Cory Sindelar, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that the Annual Report of Calix, Inc. (the "Company") on Form 10-K for the fiscal year ended December 31, 2023 fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934 and that information contained in such Annual Report on Form 10-K fairly presents in all material respects the financial condition and results of operations of the Company.

Date: February 22, 2024 /s/ Cory Sindelar

Cory Sindelar Chief Financial Officer (Principal Financial Officer)

This certification accompanies the Form 10-K to which it relates, is not deemed filed with the Securities and Exchange Commission and is not to be incorporated by reference into any filing of Calix, Inc. under the Securities Act of 1933, as amended, or the Securities Exchange Act of 1934, as amended (whether made before or after the date of the Form 10-K), irrespective of any general incorporation language contained in such filing.

# CALIX, INC. POLICY FOR RECOVERY OF ERRONEOUSLY AWARDED COMPENSATION

Calix, Inc. (the "Company") has adopted this Policy for Recovery of Erroneously Awarded Compensation (the "Policy"), effective as of October 2, 2023 (the "Effective Date"). Capitalized terms used in this Policy but not otherwise defined herein are defined in Section 11.

# 1. Persons Subject to Policy

This Policy shall apply to current and former Officers of the Company. Each Officer shall be required to sign an acknowledgment pursuant to which such Officer will agree to be bound by the terms of, and comply with, this Policy; however, any Officer's failure to sign any such acknowledgment shall not negate the application of this Policy to the Officer.

#### 2. Compensation Subject to Policy

This Policy shall apply to Incentive-Based Compensation received on or after the Effective Date. For purposes of this Policy, the date on which Incentive-Based Compensation is "received" shall be determined under the Applicable Rules, which generally provide that Incentive-Based Compensation is "received" in the Company's fiscal period during which the relevant Financial Reporting Measure is attained or satisfied, without regard to whether the grant, vesting or payment of the Incentive-Based Compensation occurs after the end of that period.

## 3. Recovery of Compensation

In the event that the Company is required to prepare a Restatement, the Company shall recover, reasonably promptly, the portion of any Incentive-Based Compensation that is Erroneously Awarded Compensation, unless the Committee has determined that recovery would be Impracticable. Recovery shall be required in accordance with the preceding sentence regardless of whether the applicable Officer engaged in misconduct or otherwise caused or contributed to the requirement for the Restatement and regardless of whether or when restated financial statements are filed by the Company. For clarity, the recovery of Erroneously Awarded Compensation under this Policy will not give rise to any person's right to voluntarily terminate employment for "good reason," or due to a "constructive termination" (or any similar term of like effect) under any plan, program or policy of or agreement with the Company or any of its affiliates.

## 4. Manner of Recovery; Limitation on Duplicative Recovery

The Committee shall, in its sole discretion, determine the manner of recovery of any Erroneously Awarded Compensation, which may include, without limitation, reduction or cancellation by the Company or an affiliate of the Company of Incentive-Based Compensation or Erroneously Awarded Compensation, reimbursement or repayment by any person subject to this Policy of the Erroneously Awarded Compensation, and, to the extent permitted by law, an offset of the Erroneously Awarded Compensation against other compensation payable by the Company or an affiliate of the Company to such person. Notwithstanding the foregoing, unless otherwise prohibited by the Applicable Rules, to the extent this Policy provides for recovery of Erroneously Awarded Compensation already recovered by the Company pursuant to Section 304 of the Sarbanes-Oxley Act of 2002 or Other Recovery Arrangements, the amount of Erroneously Awarded Compensation already recovered by the Company from the recipient of such

Erroneously Awarded Compensation may be credited to the amount of Erroneously Awarded Compensation required to be recovered pursuant to this Policy from such person.

#### 5. Administration

This Policy shall be administered, interpreted and construed by the Committee, which is authorized to make all determinations necessary, appropriate or advisable for such purpose. The Board of Directors of the Company (the "*Board*") may re-vest in itself the authority to administer, interpret and construe this Policy in accordance with applicable law, and in such event references herein to the "Committee" shall be deemed to be references to the Board. Subject to any permitted review by the applicable national securities exchange or association pursuant to the Applicable Rules, all determinations and decisions made by the Committee pursuant to the provisions of this Policy shall be final, conclusive and binding on all persons, including the Company and its affiliates, equityholders and employees. The Committee may delegate administrative duties with respect to this Policy to one or more directors or employees of the Company, as permitted under applicable law, including any Applicable Rules.

# 6. Interpretation

This Policy will be interpreted and applied in a manner that is consistent with the requirements of the Applicable Rules, and to the extent this Policy is inconsistent with such Applicable Rules, it shall be deemed amended to the minimum extent necessary to ensure compliance therewith.

# 7. No Indemnification; No Liability

The Company shall not indemnify or insure any person against the loss of any Erroneously Awarded Compensation pursuant to this Policy, nor shall the Company directly or indirectly pay or reimburse any person for any premiums for third-party insurance policies that such person may elect to purchase to fund such person's potential obligations under this Policy. None of the Company, an affiliate of the Company or any member of the Committee or the Board shall have any liability to any person as a result of actions taken under this Policy.

#### 8. Application; Enforceability

Except as otherwise determined by the Committee or the Board, the adoption of this Policy does not limit, and is intended to apply in addition to, any other clawback, recoupment, forfeiture or similar policies or provisions of the Company or its affiliates, including any such policies or provisions of such effect contained in any employment agreement, bonus plan, incentive plan, equity-based plan or award agreement thereunder or similar plan, program or agreement of the Company or an affiliate or required under applicable law (the "Other Recovery Arrangements"). The remedy specified in this Policy shall not be exclusive and shall be in addition to every other right or remedy at law or in equity that may be available to the Company or an affiliate of the Company.

# 9. Severability

The provisions in this Policy are intended to be applied to the fullest extent of the law; provided, however, to the extent that any provision of this Policy is found to be unenforceable or invalid under any applicable law, such provision will be applied to the maximum extent

permitted, and shall automatically be deemed amended in a manner consistent with its objectives to the extent necessary to conform to any limitations required under applicable law.

# 10. Amendment and Termination

The Board or the Committee may amend, modify or terminate this Policy in whole or in part at any time and from time to time in its sole discretion. This Policy will terminate automatically when the Company does not have a class of securities listed on a national securities exchange or association.

#### 11. **Definitions**

- "Applicable Rules" means Section 10D of the Exchange Act, Rule 10D-1 promulgated thereunder, the listing rules of the national securities exchange or association on which the Company's securities are listed, and any applicable rules, standards or other guidance adopted by the Securities and Exchange Commission or any national securities exchange or association on which the Company's securities are listed.
- "Committee" means the committee of the Board responsible for executive compensation decisions comprised solely of independent directors (as determined under the Applicable Rules), or in the absence of such a committee, a majority of the independent directors serving on the Board.
- "Erroneously Awarded Compensation" means the amount of Incentive-Based Compensation received by a current or former Officer that exceeds the amount of Incentive-Based Compensation that would have been received by such current or former Officer based on a restated Financial Reporting Measure, as determined on a pre-tax basis in accordance with the Applicable Rules.
  - "Exchange Act" means the Securities Exchange Act of 1934, as amended.
- "Financial Reporting Measure" means any measure determined and presented in accordance with the accounting principles used in preparing the Company's financial statements, and any measures derived wholly or in part from such measures, including GAAP and non-GAAP financial measures, as well as stock or share price and total equityholder return.
  - "GAAP" means United States generally accepted accounting principles.
- "Impracticable" means (a) the direct costs paid to third parties to assist in enforcing recovery would exceed the Erroneously Awarded Compensation; provided that the Company (i) has made reasonable attempts to recover the Erroneously Awarded Compensation, (ii) documented such attempt(s), and (iii) provided such documentation to the relevant listing exchange or association, (b) to the extent permitted by the Applicable Rules, the recovery would violate the Company's home country laws pursuant to an opinion of home country counsel; provided that the Company has (i) obtained an opinion of home country counsel, acceptable to the relevant listing exchange or association, that recovery would result in such violation, and (ii) provided such opinion to the relevant listing exchange or association, or (c) recovery would likely cause an otherwise tax-qualified retirement plan, under which benefits are broadly available to employees of the Company, to fail to meet the requirements of 26 U.S.C. 401(a)(13) or 26 U.S.C. 411(a) and the regulations thereunder.

"Incentive-Based Compensation" means, with respect to a Restatement, any compensation that is granted, earned, or vested based wholly or in part upon the attainment of one or more Financial Reporting Measures and received by a person: (a) after beginning service as an Officer; (b) who served as an Officer at any time during the performance period for that compensation; (c) while the issuer has a class of its securities listed on a national securities exchange or association; and (d) during the applicable Three-Year Period.

"Officer" means each person who serves as an executive officer of the Company, as defined in Rule 10D-1(d) under the Exchange Act.

"Restatement" means an accounting restatement to correct the Company's material noncompliance with any financial reporting requirement under securities laws, including restatements that correct an error in previously issued financial statements (a) that is material to the previously issued financial statements or (b) that would result in a material misstatement if the error were corrected in the current period or left uncorrected in the current period.

"Three-Year Period" means, with respect to a Restatement, the three completed fiscal years immediately preceding the date that the Board, a committee of the Board, or the officer or officers of the Company authorized to take such action if Board action is not required, concludes, or reasonably should have concluded, that the Company is required to prepare such Restatement, or, if earlier, the date on which a court, regulator or other legally authorized body directs the Company to prepare such Restatement. The "Three-Year Period" also includes any transition period (that results from a change in the Company's fiscal year) within or immediately following the three completed fiscal years identified in the preceding sentence. However, a transition period between the last day of the Company's previous fiscal year end and the first day of its new fiscal year that comprises a period of nine to 12 months shall be deemed a completed fiscal year.

\*\*\*\*

Adopted by the Compensation Committeee effective October 2, 2023

# ACKNOWLEDGMENT AND CONSENT TO CALIX, INC. POLICY FOR RECOVERY OF ERRONEOUSLY AWARDED COMPENSATION

The undersigned has received a copy of the Policy for Recovery of Erroneously Awarded Compensation (the "*Policy*") adopted by Calix, Inc. (the "*Company*").

For good and valuable consideration, the receipt of which is acknowledged, the undersigned agrees to the terms of the Policy and agrees that compensation received by the undersigned may be subject to reduction, cancellation, forfeiture and/or recoupment to the extent necessary to comply with the Policy, notwithstanding any other agreement to the contrary. The undersigned further acknowledges and agrees that the undersigned is not entitled to indemnification in connection with any enforcement of the Policy and expressly waives any rights to such indemnification under the Company's organizational documents or otherwise.

Date	Signature
	Name
	Title